

FIG. 1

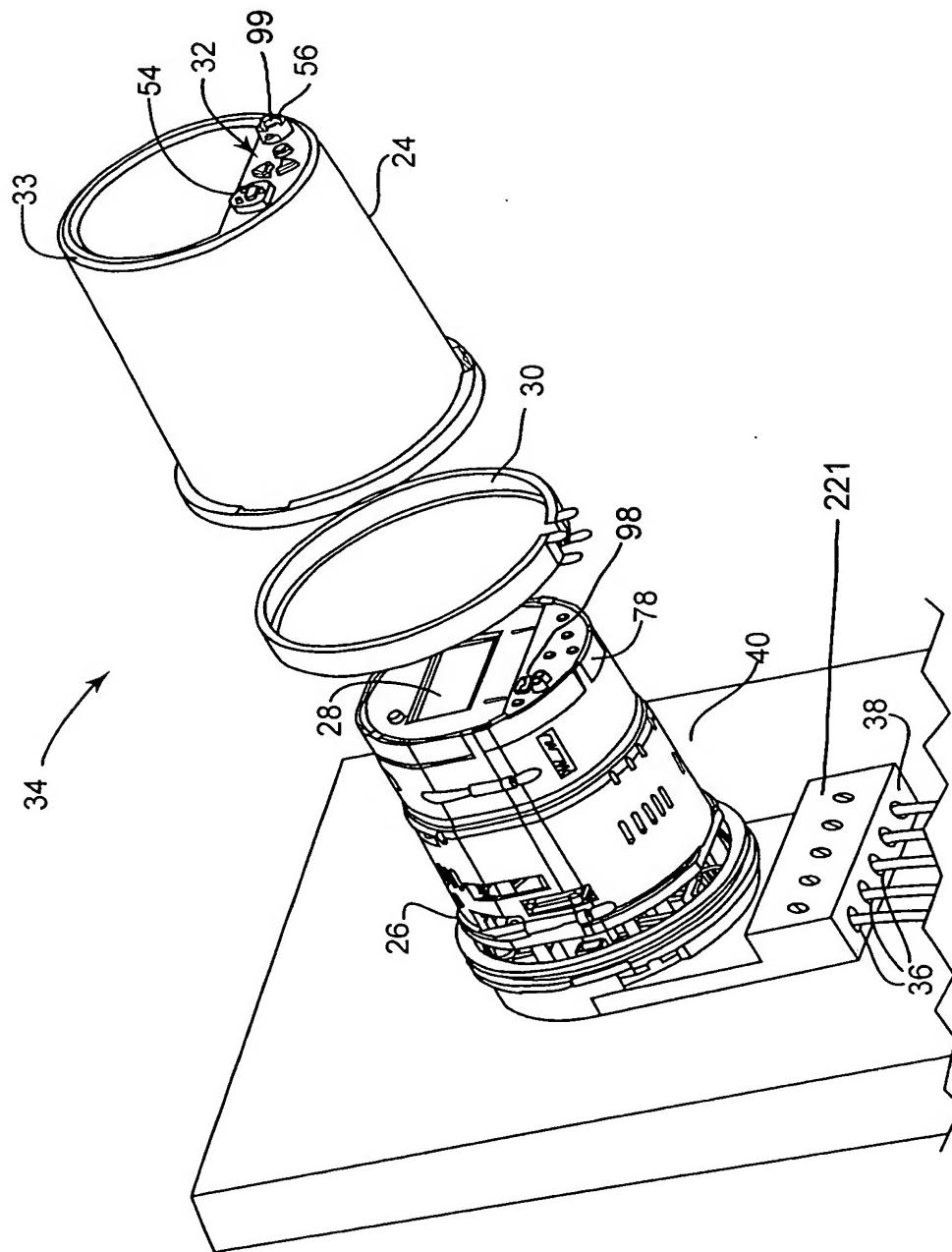


FIG. 2

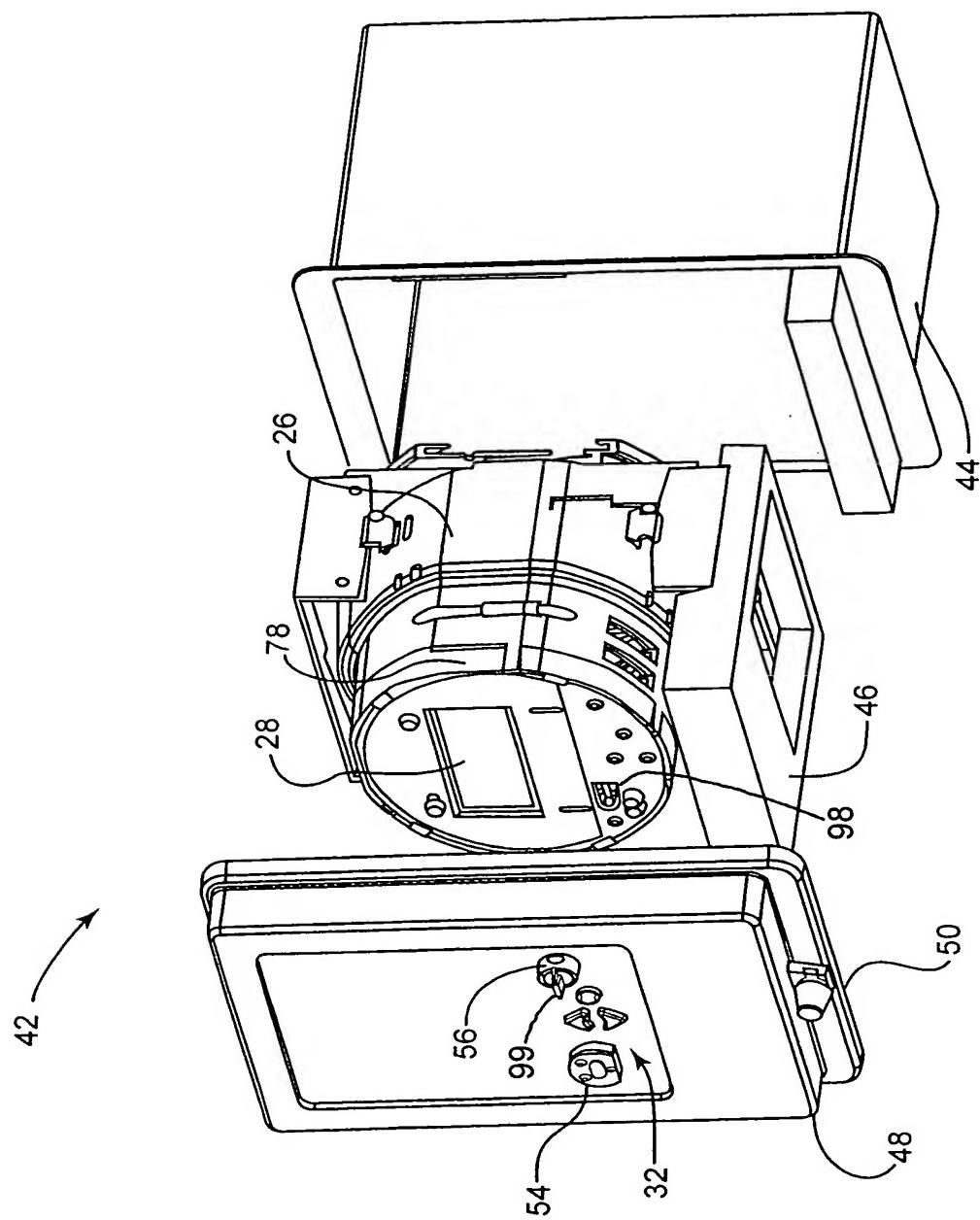
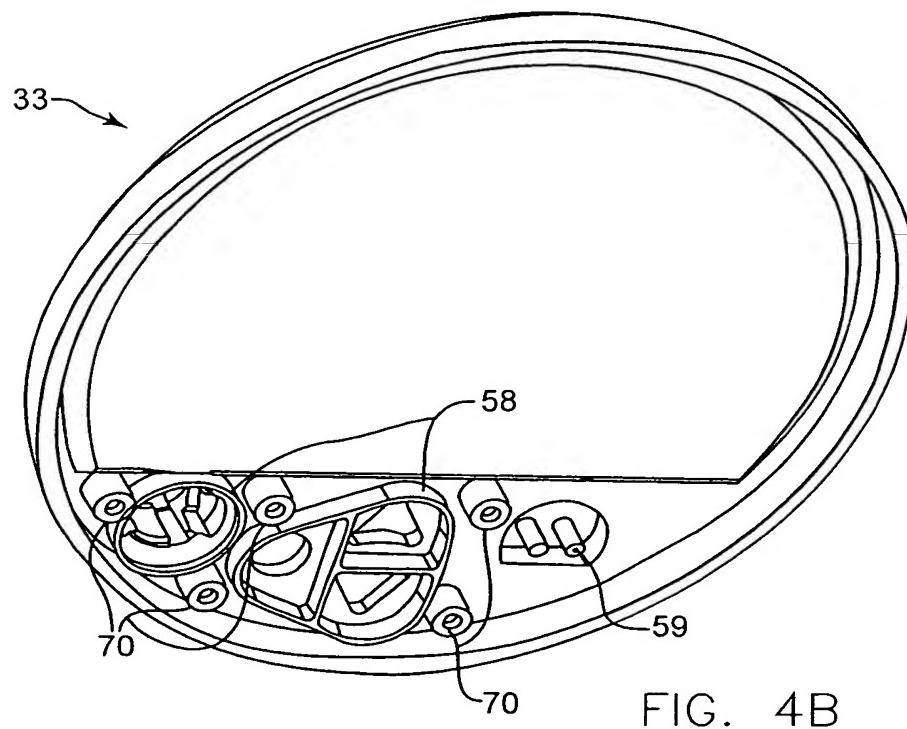
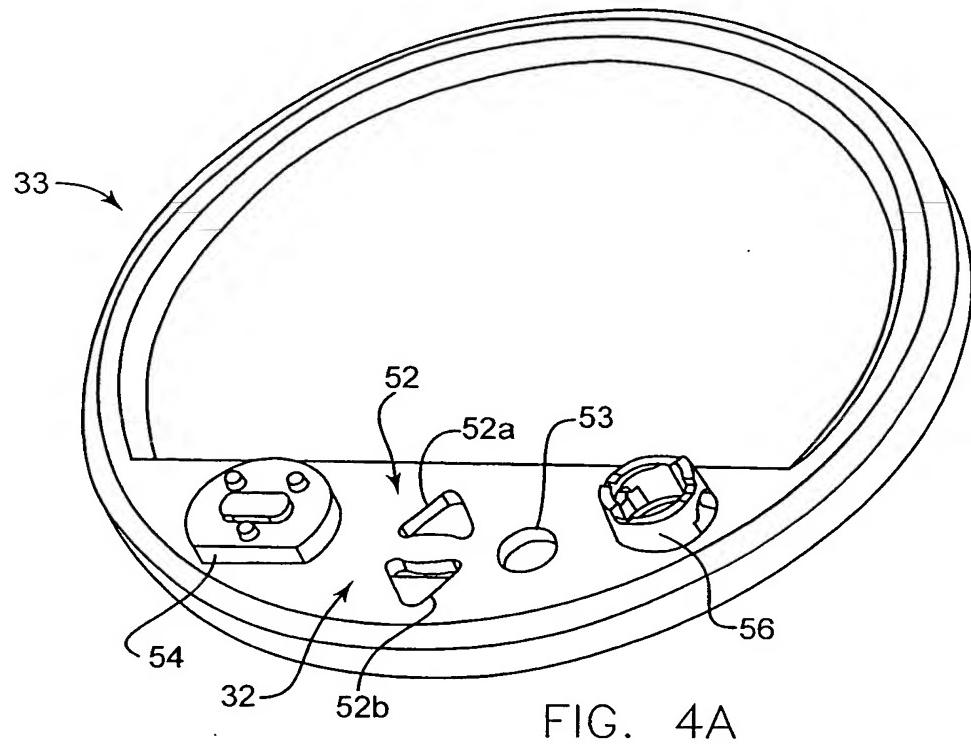


FIG. 3

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

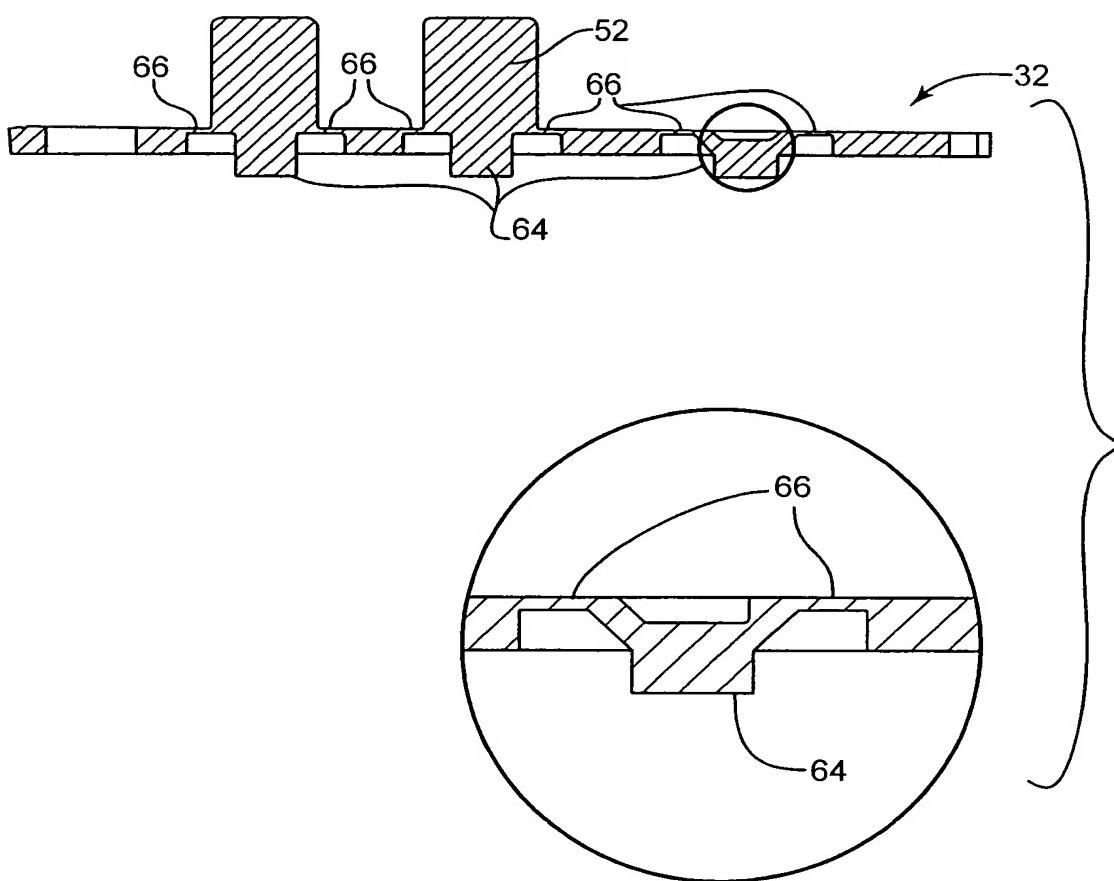


FIG. 5A

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

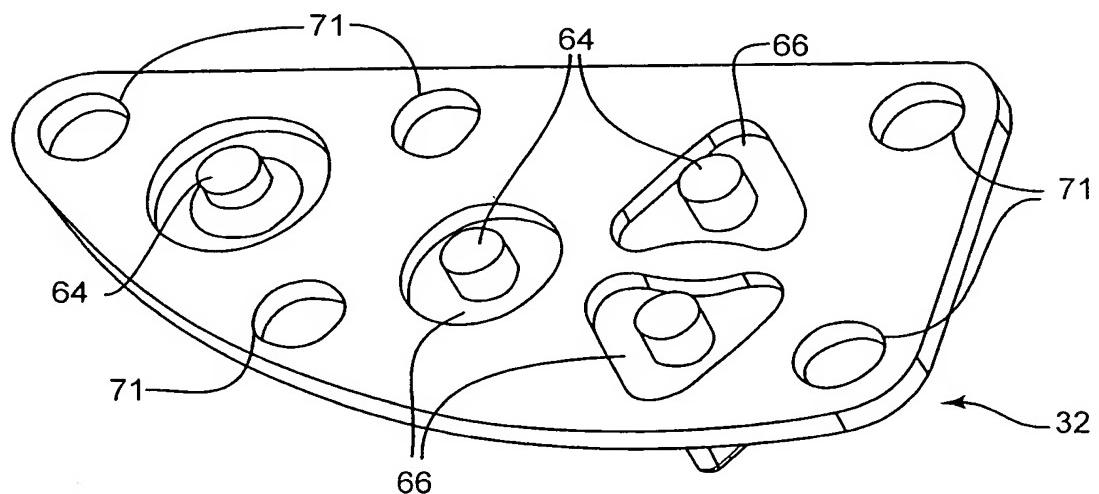


FIG. 5B

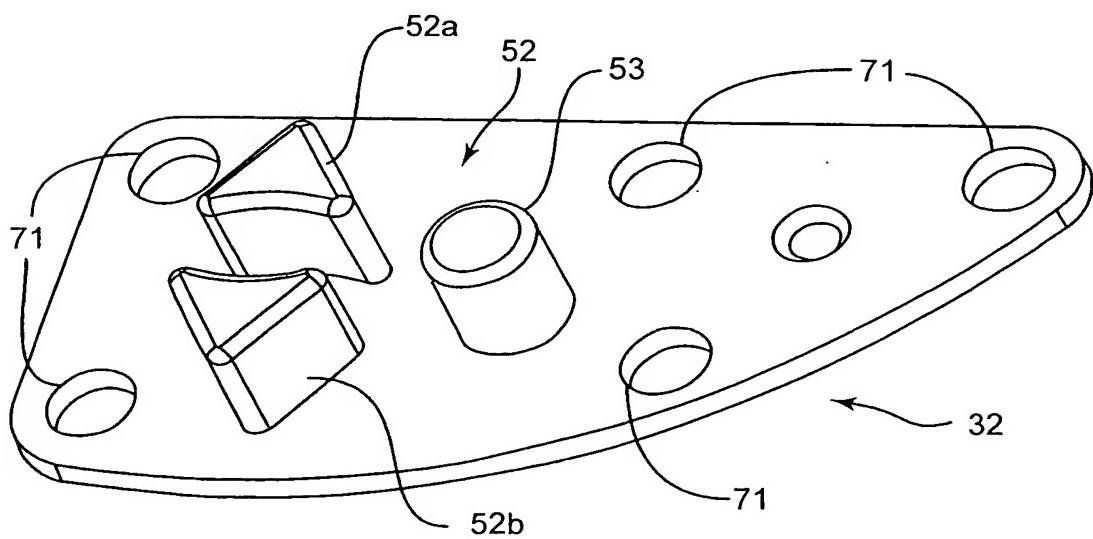


FIG. 5C

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

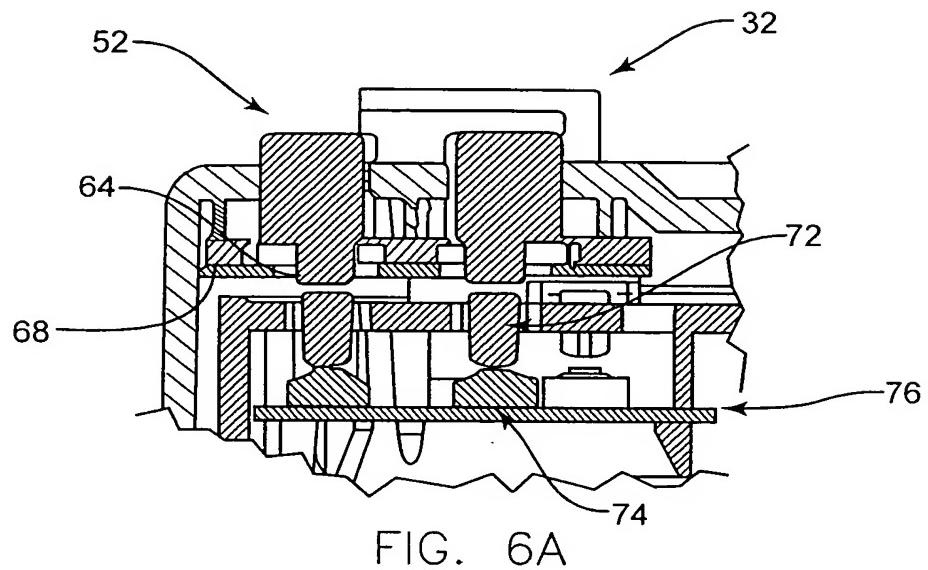


FIG. 6A

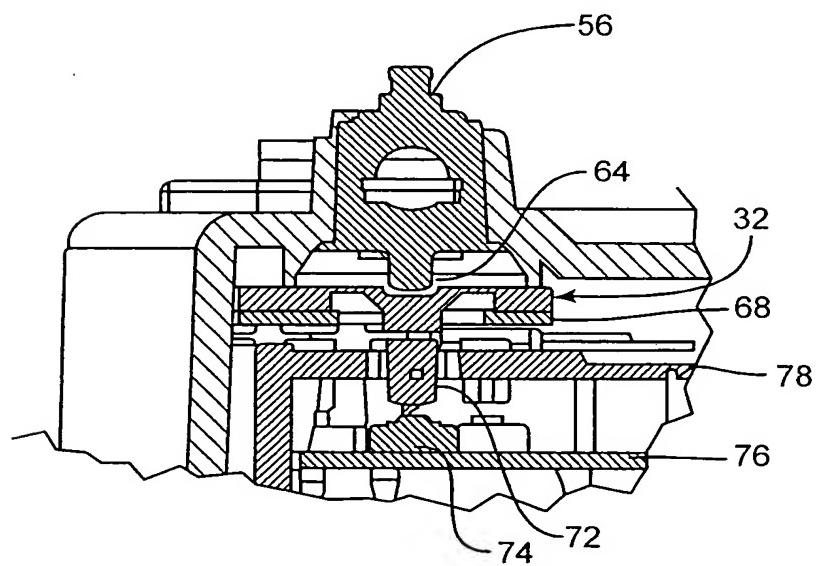


FIG. 6B

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

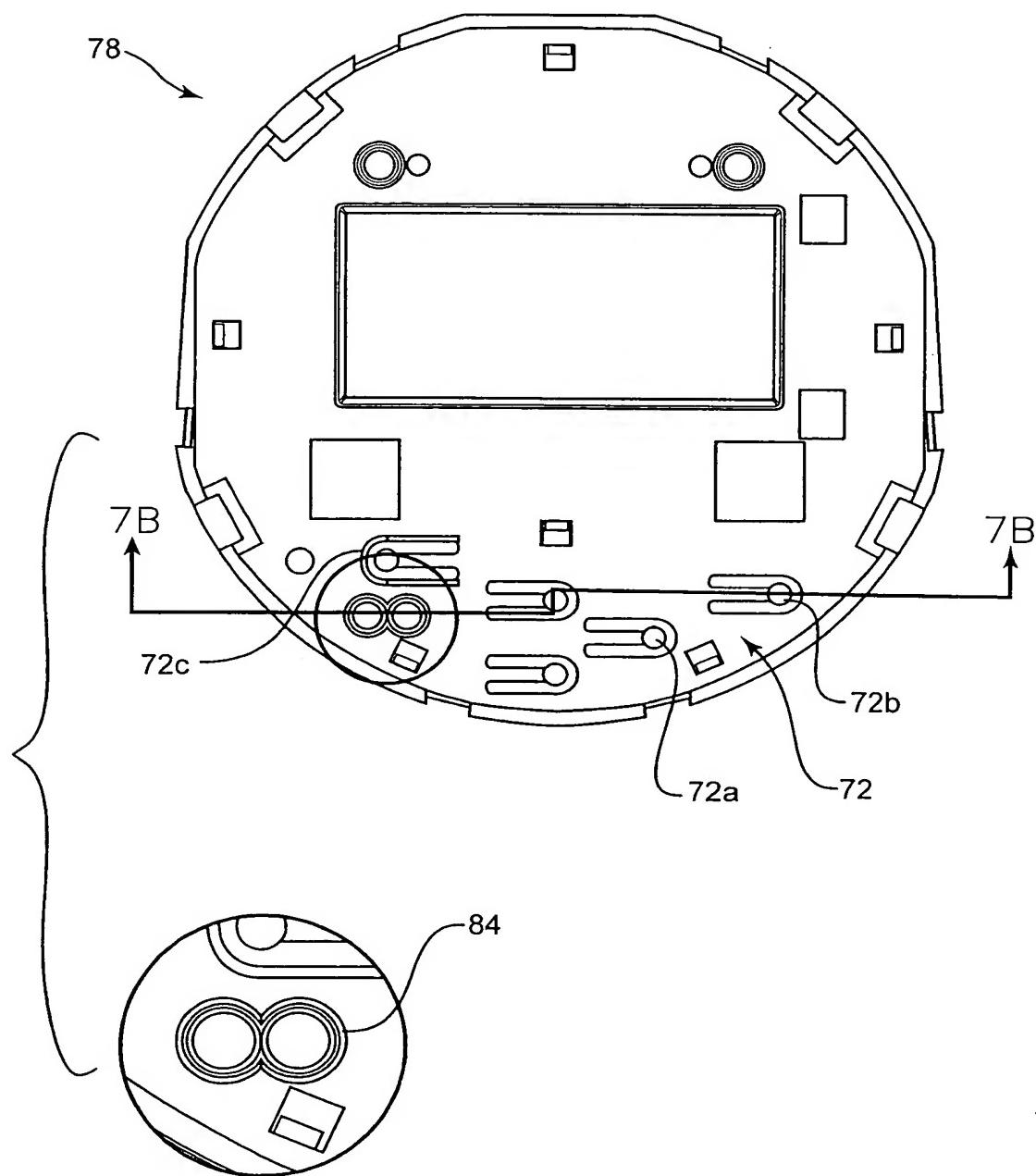


FIG. 7A

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

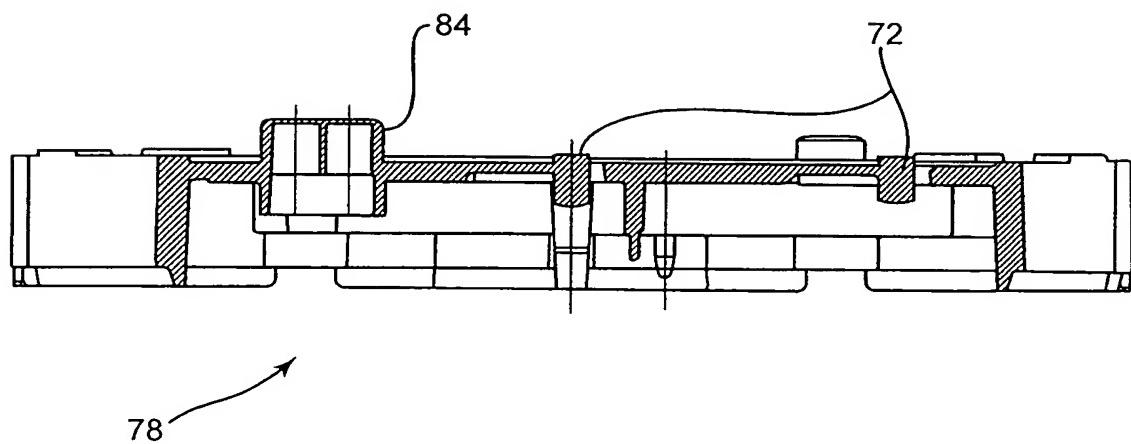


FIG. 7B

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

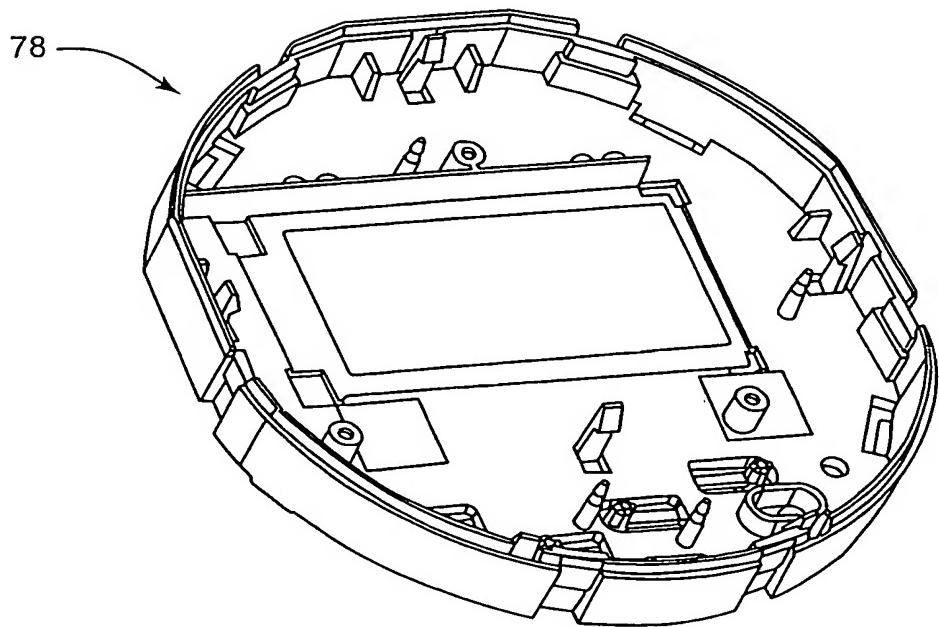
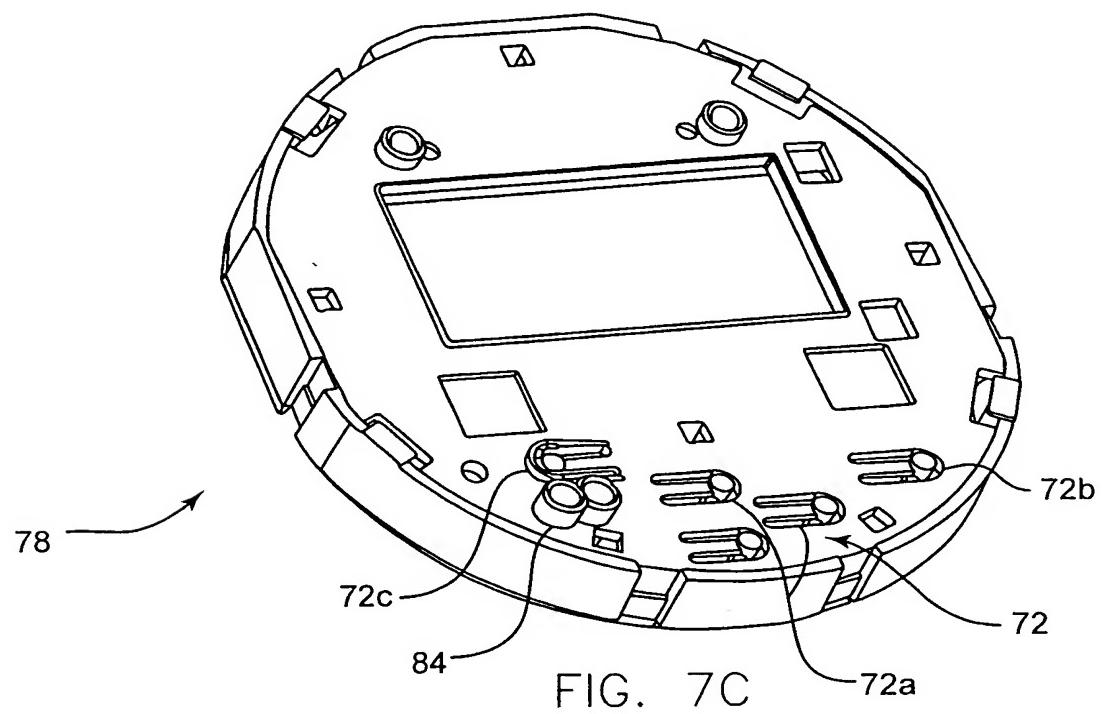


FIG. 7D

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

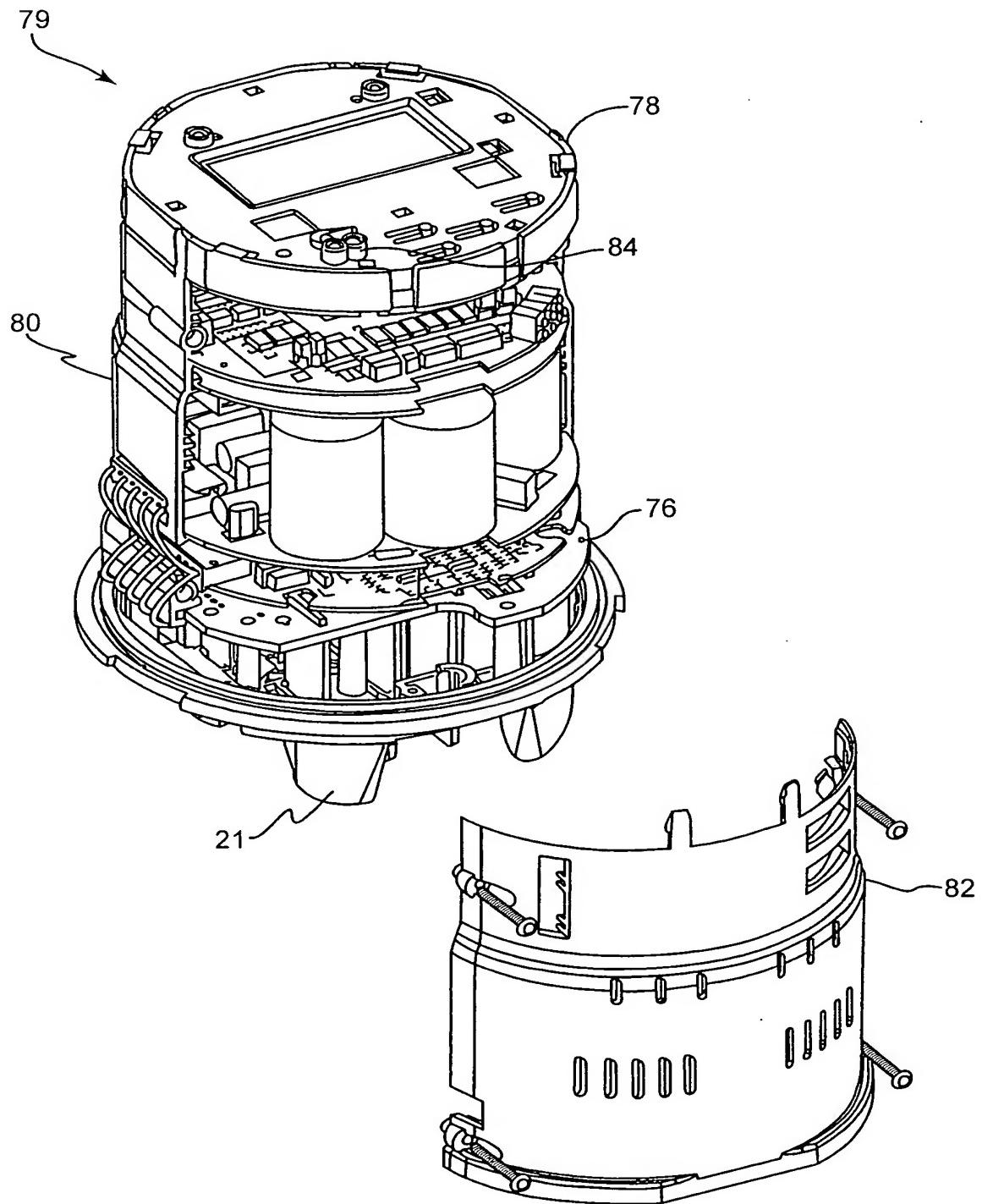


FIG. 8

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

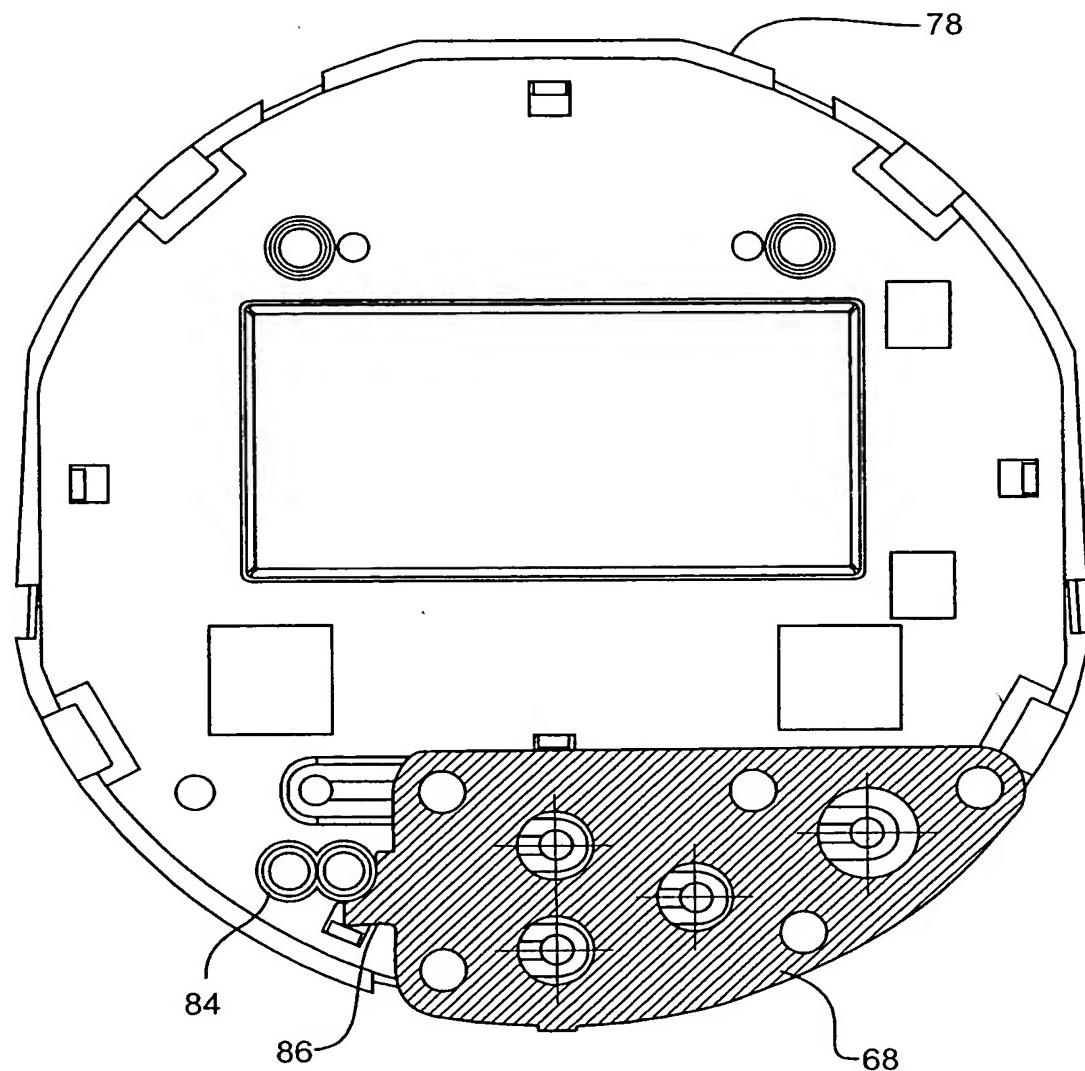


FIG. 9

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER  
Inventor(s): David W. Giles et al  
Attorney Docket No.: OUR CASE NO. 6270/125

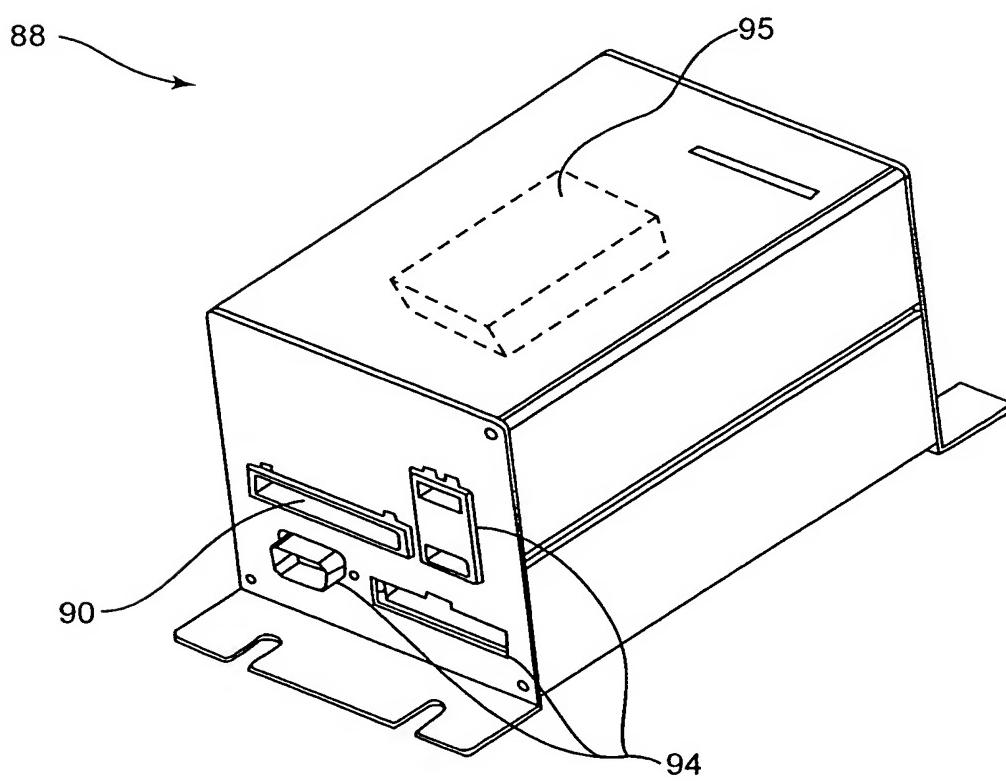


FIG. 10

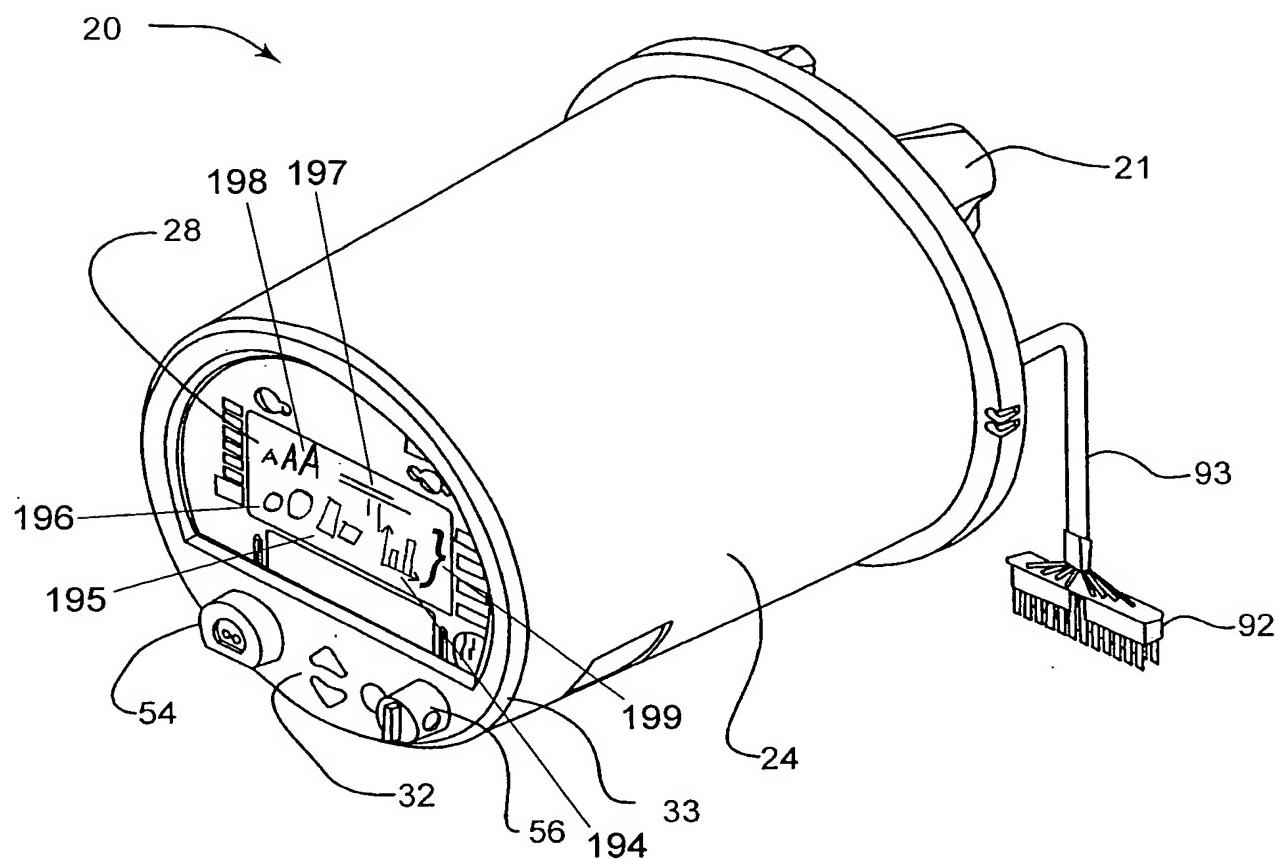


FIG. 11

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

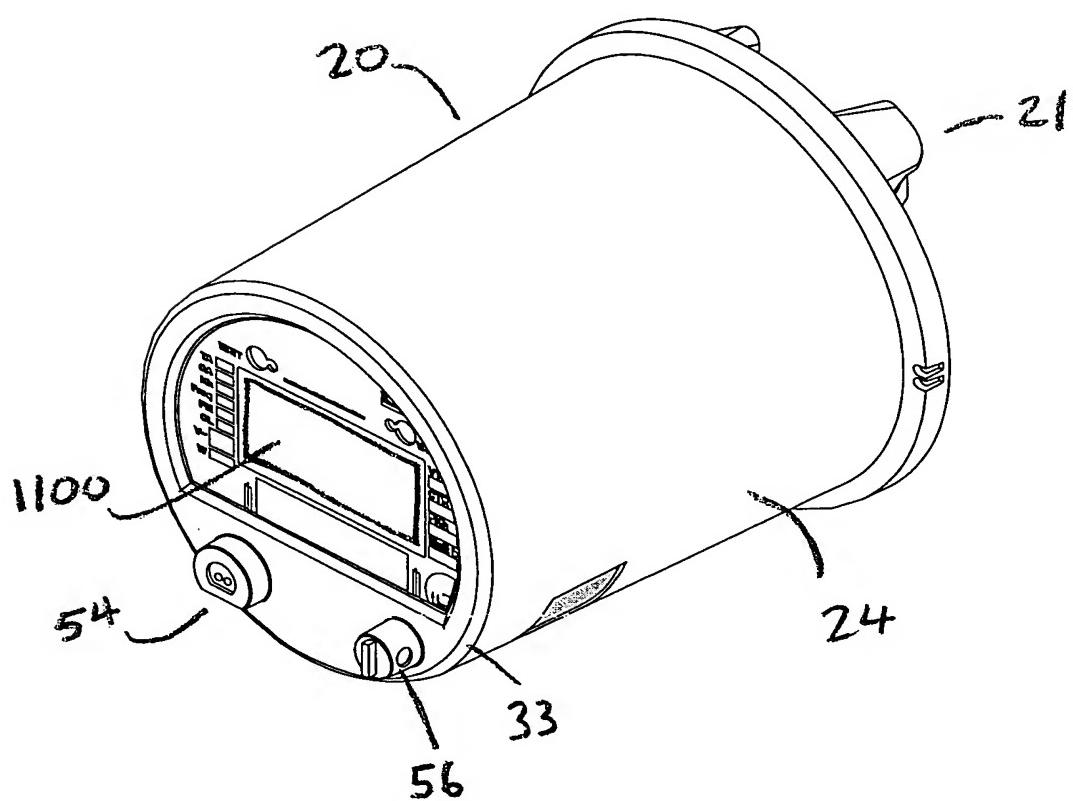


Fig. 11a

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

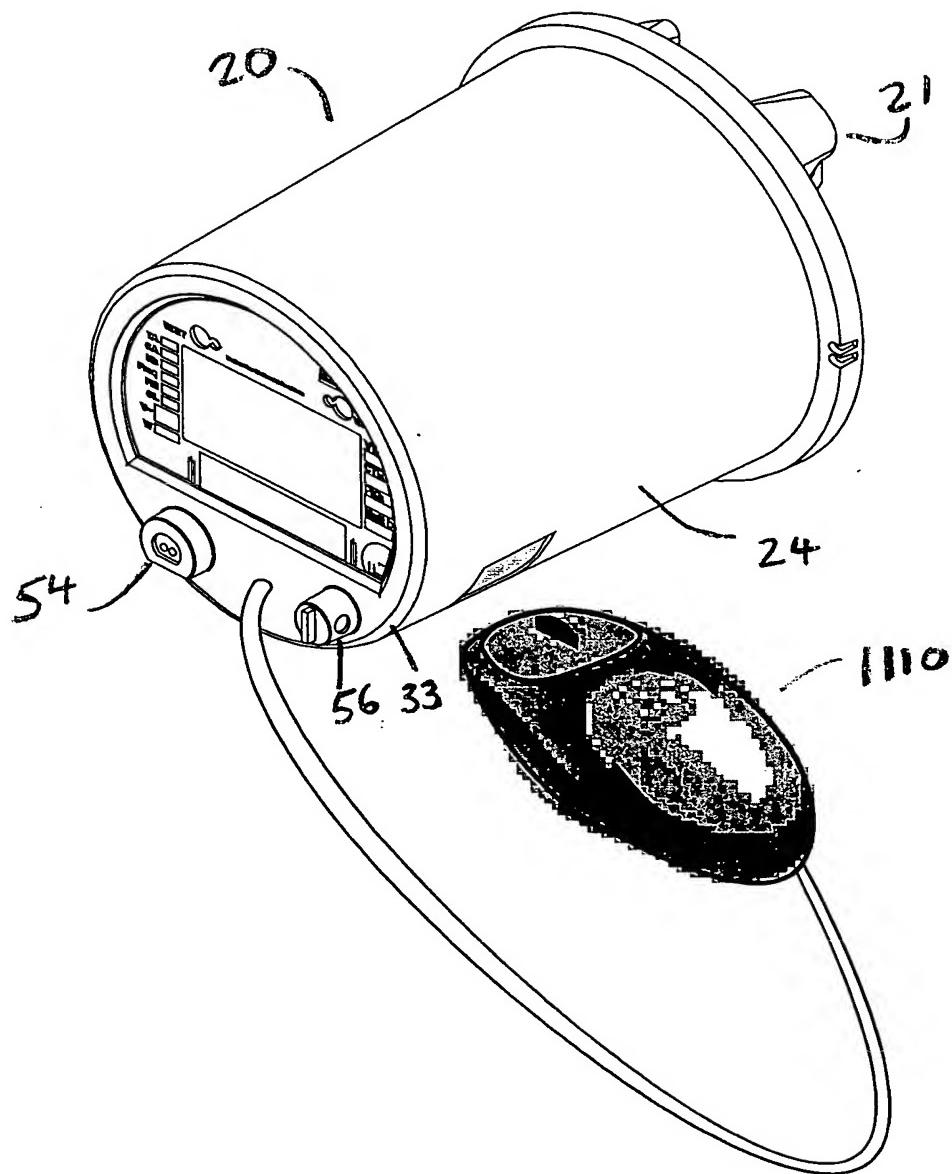


Fig. 11b

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

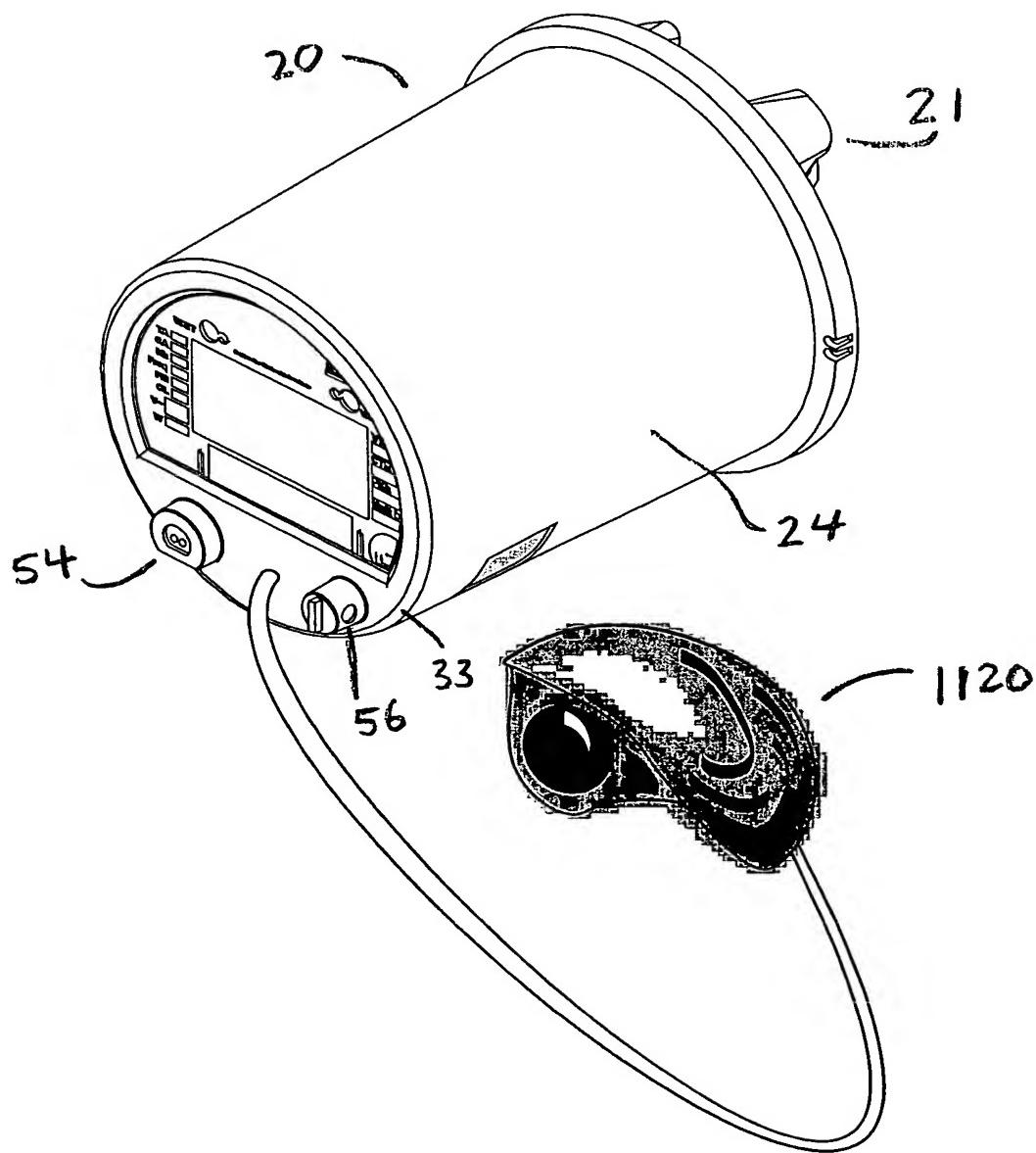


Fig. 11c

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

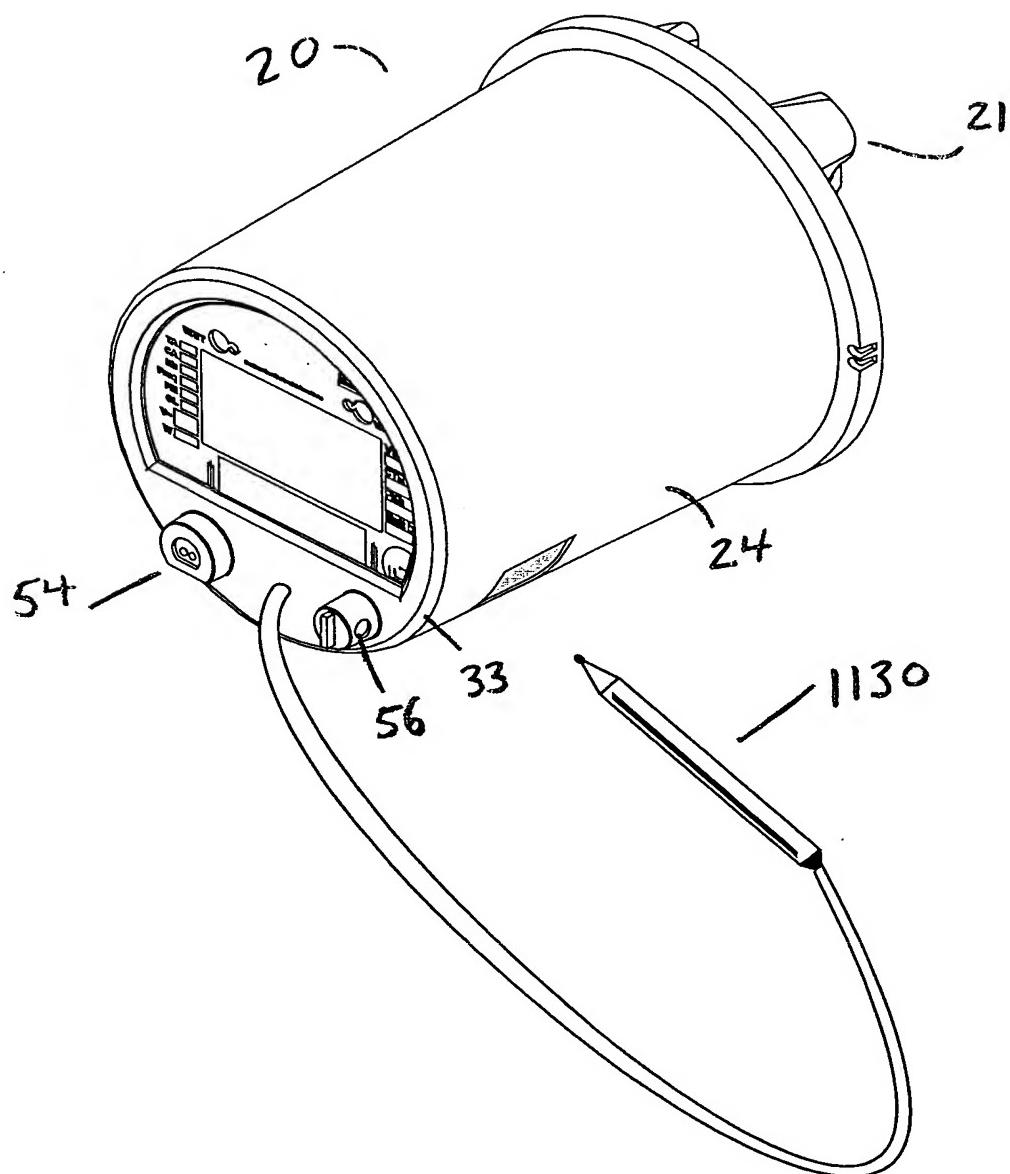


Fig. 11d

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

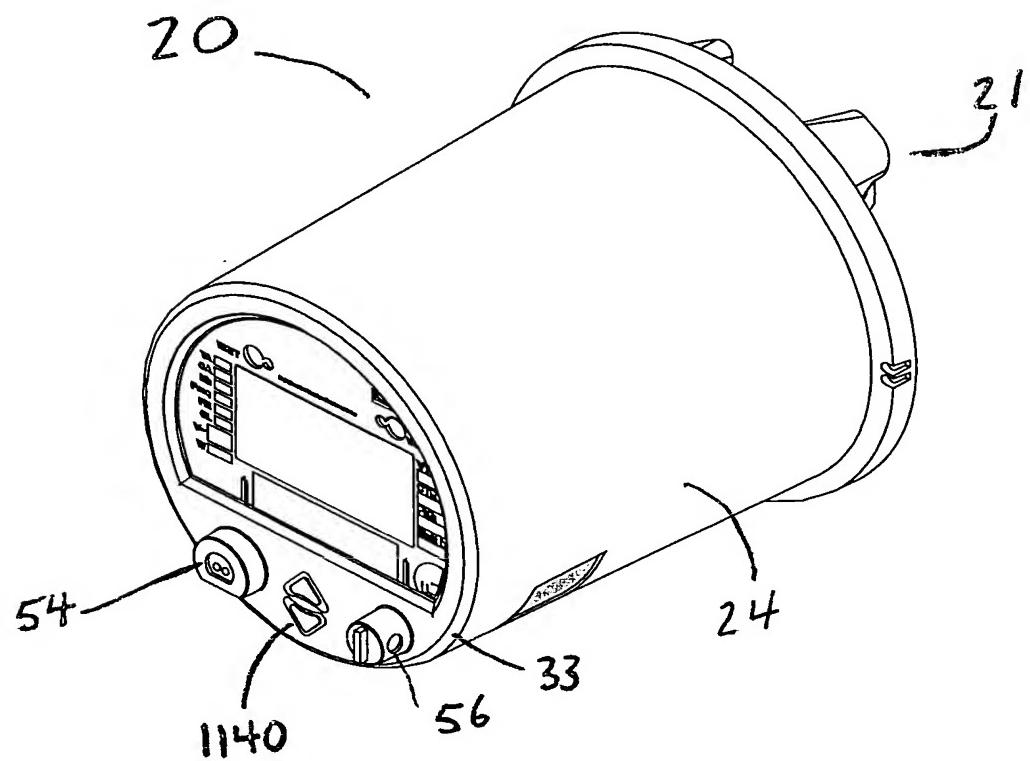


Fig. 11e

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

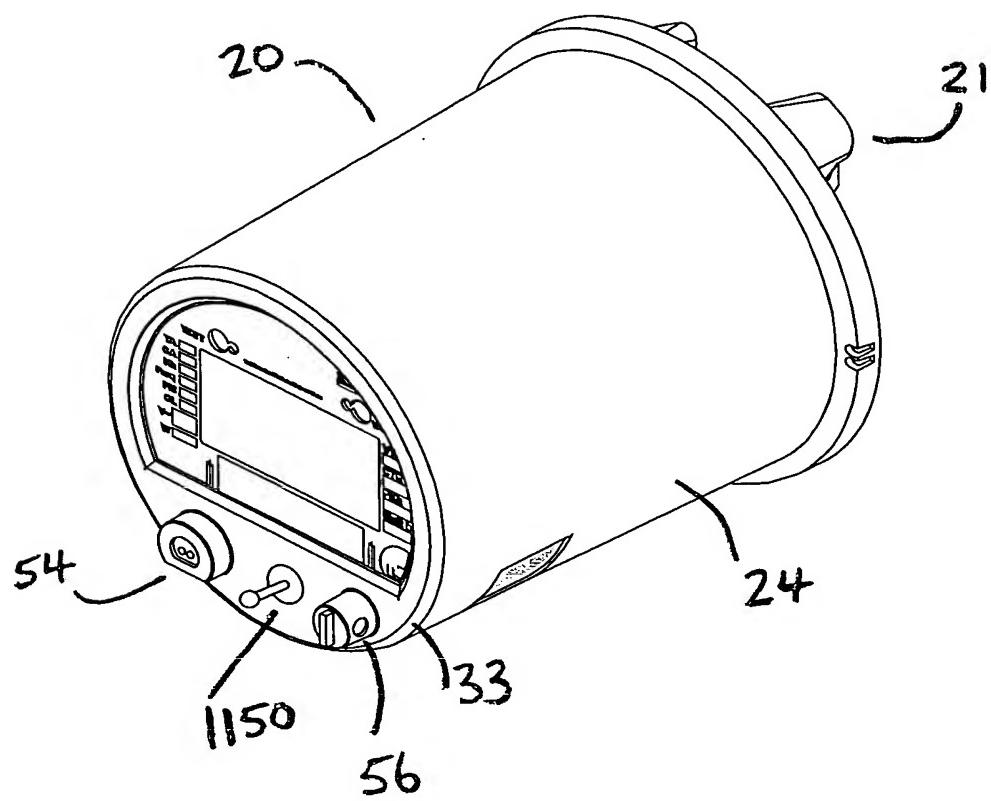


Fig.11f

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

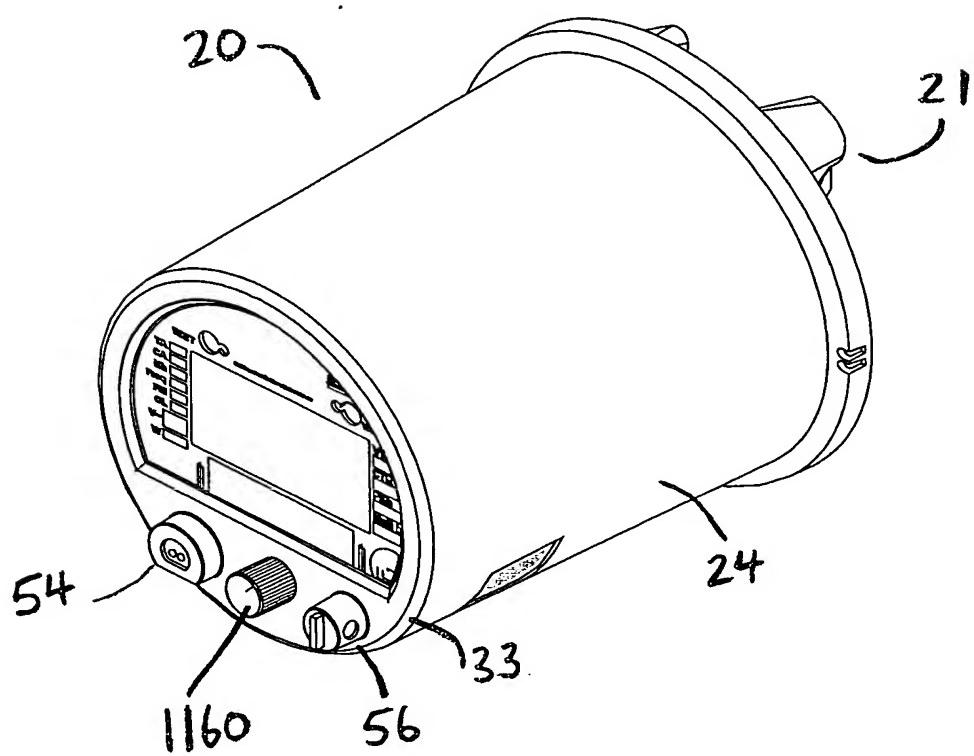


Fig. 11g

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

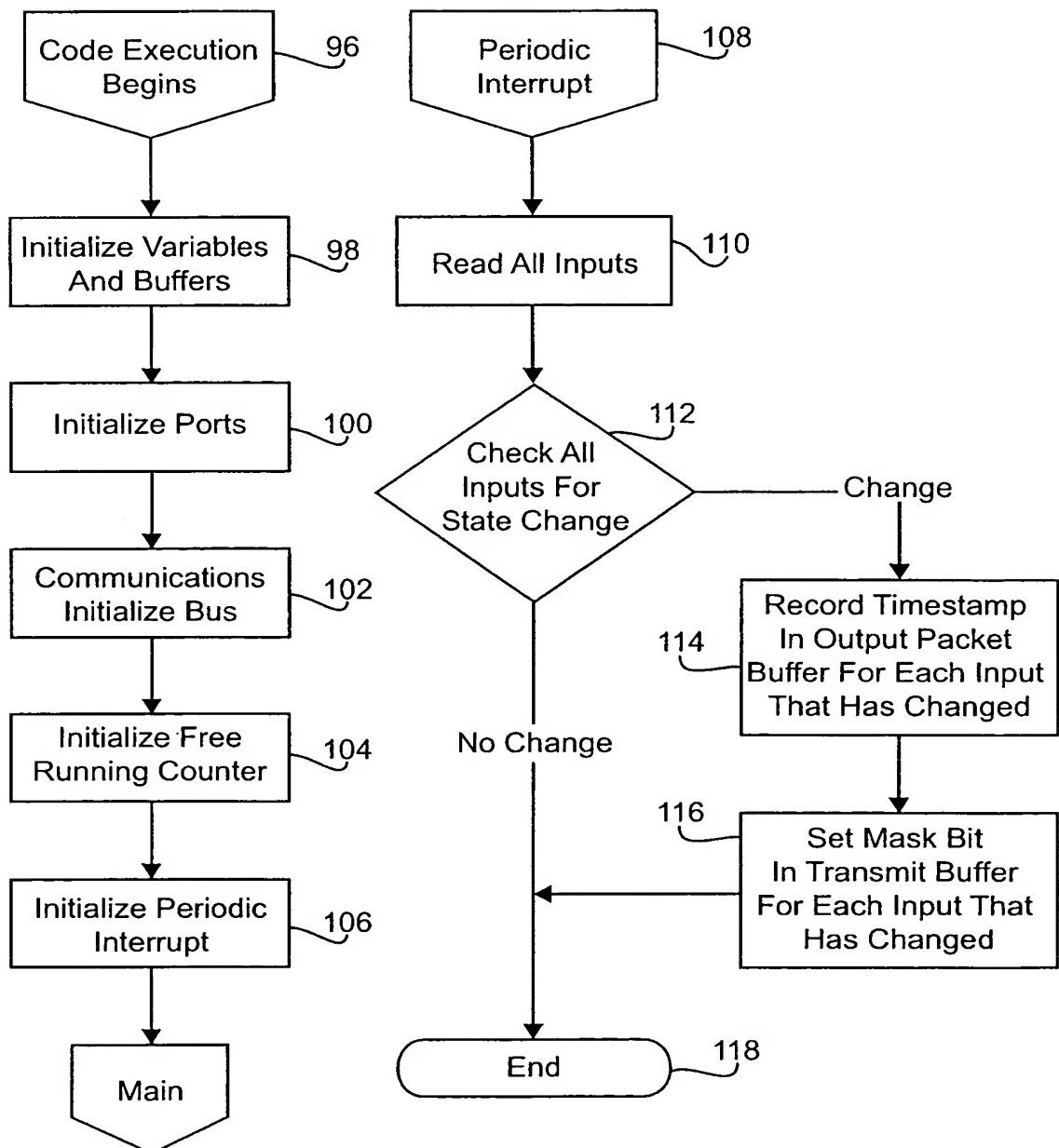


FIG. 12A

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

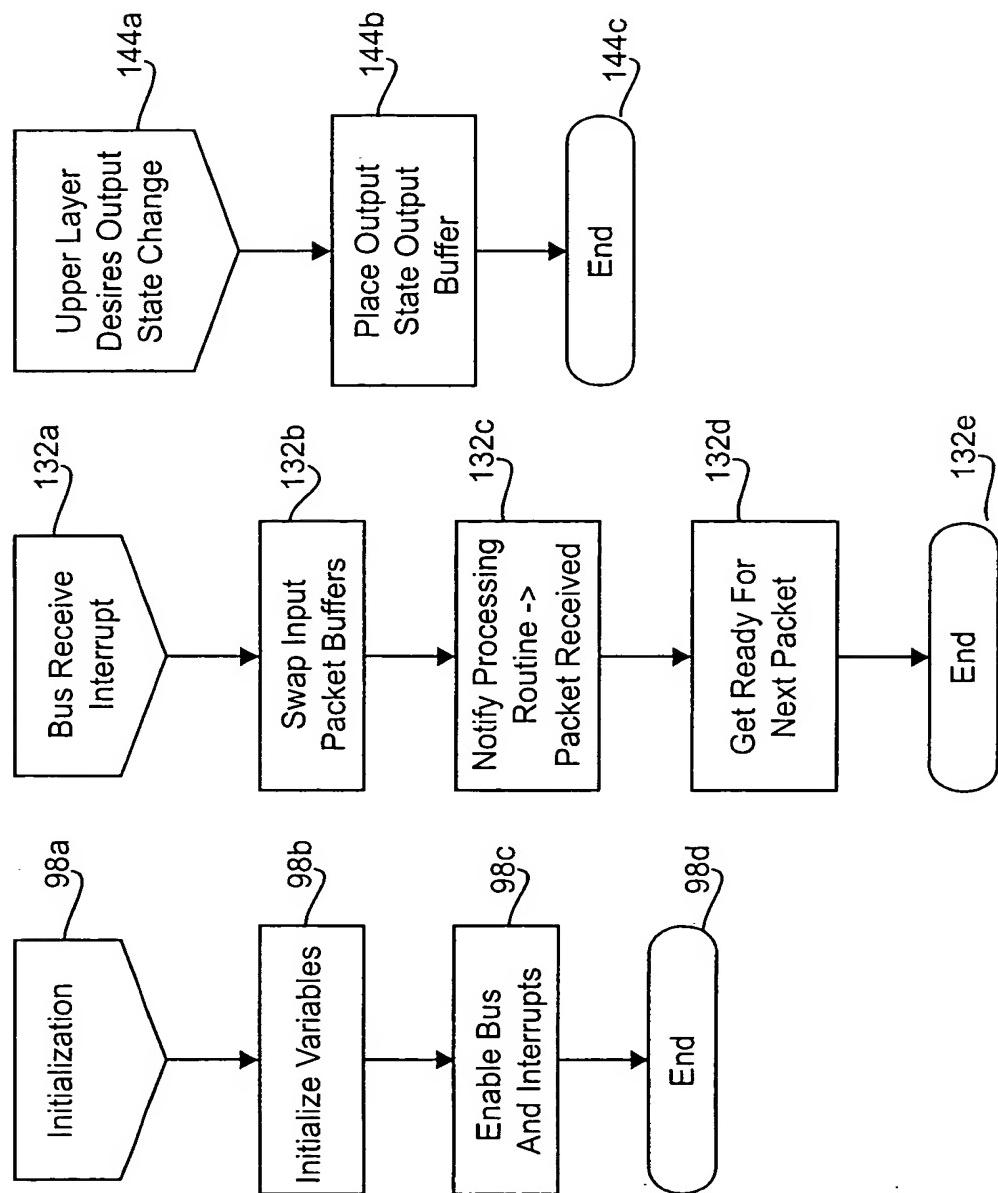


FIG. 12B

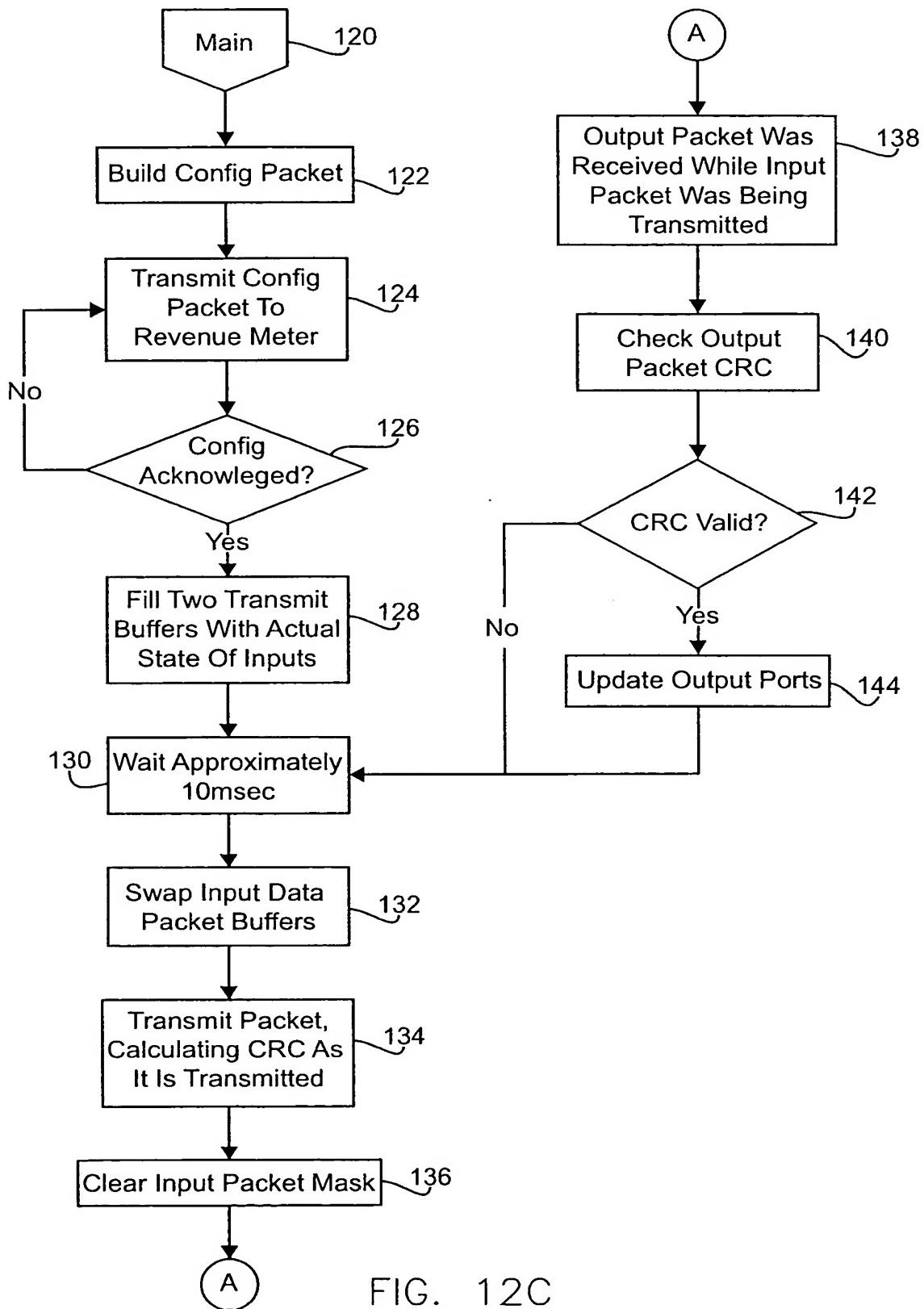


FIG. 12C

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

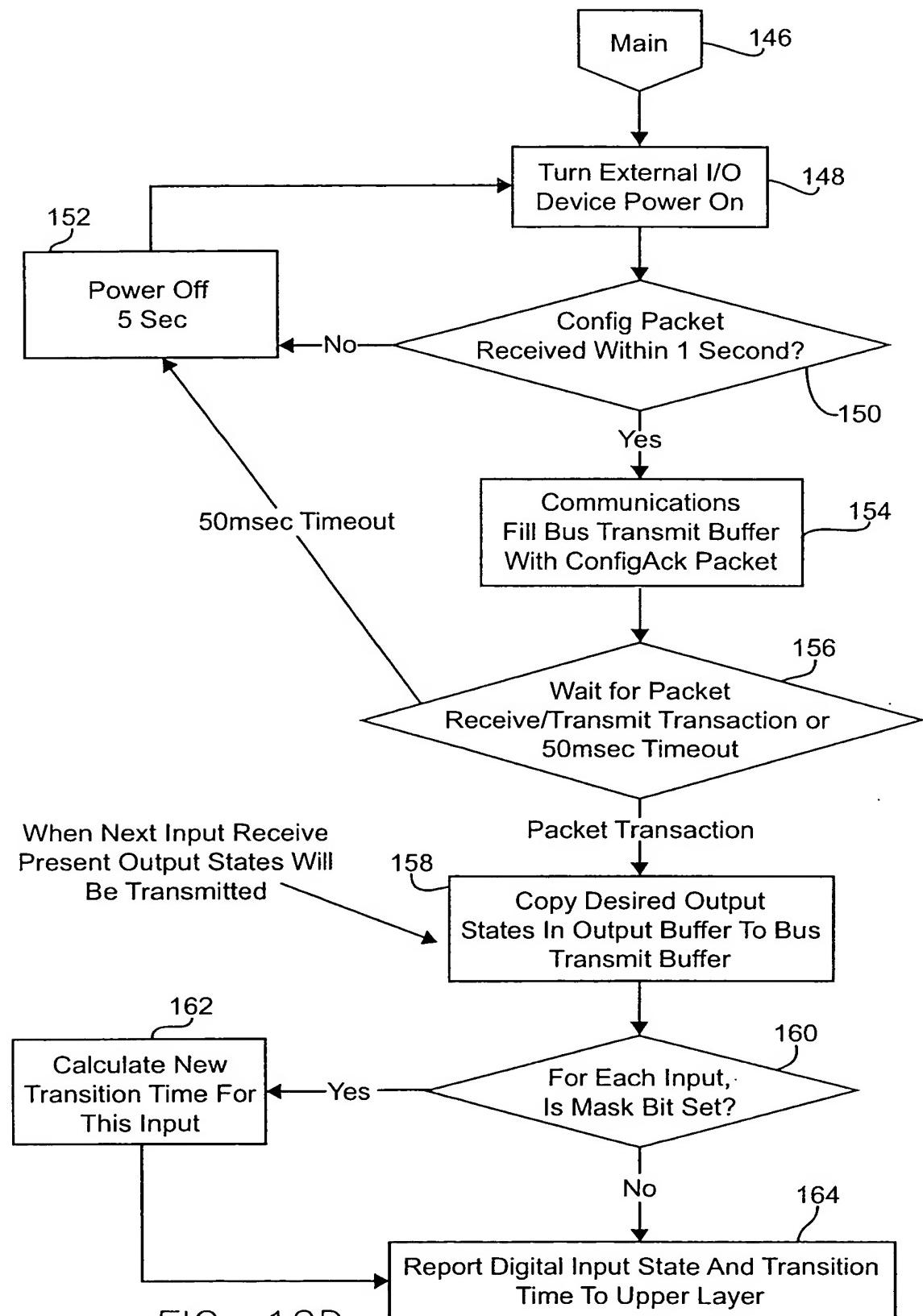


FIG. 12D

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

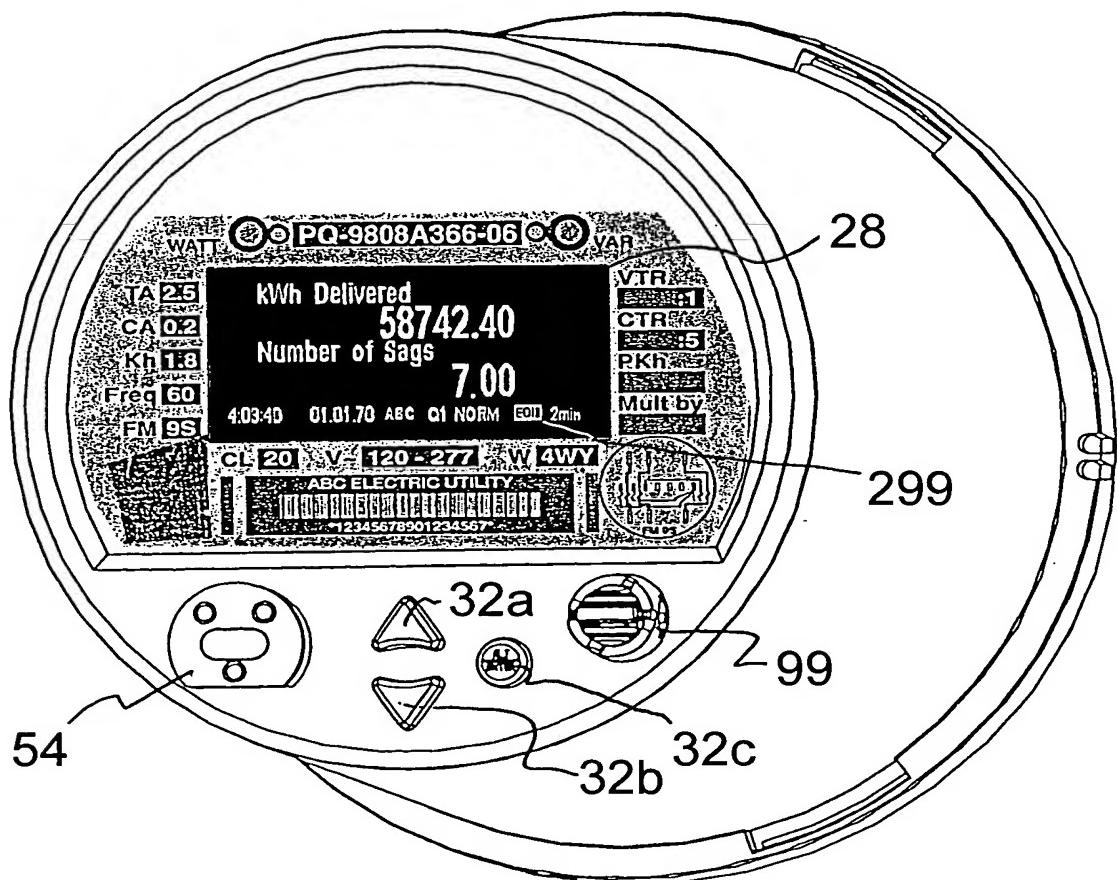


FIG. 13

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

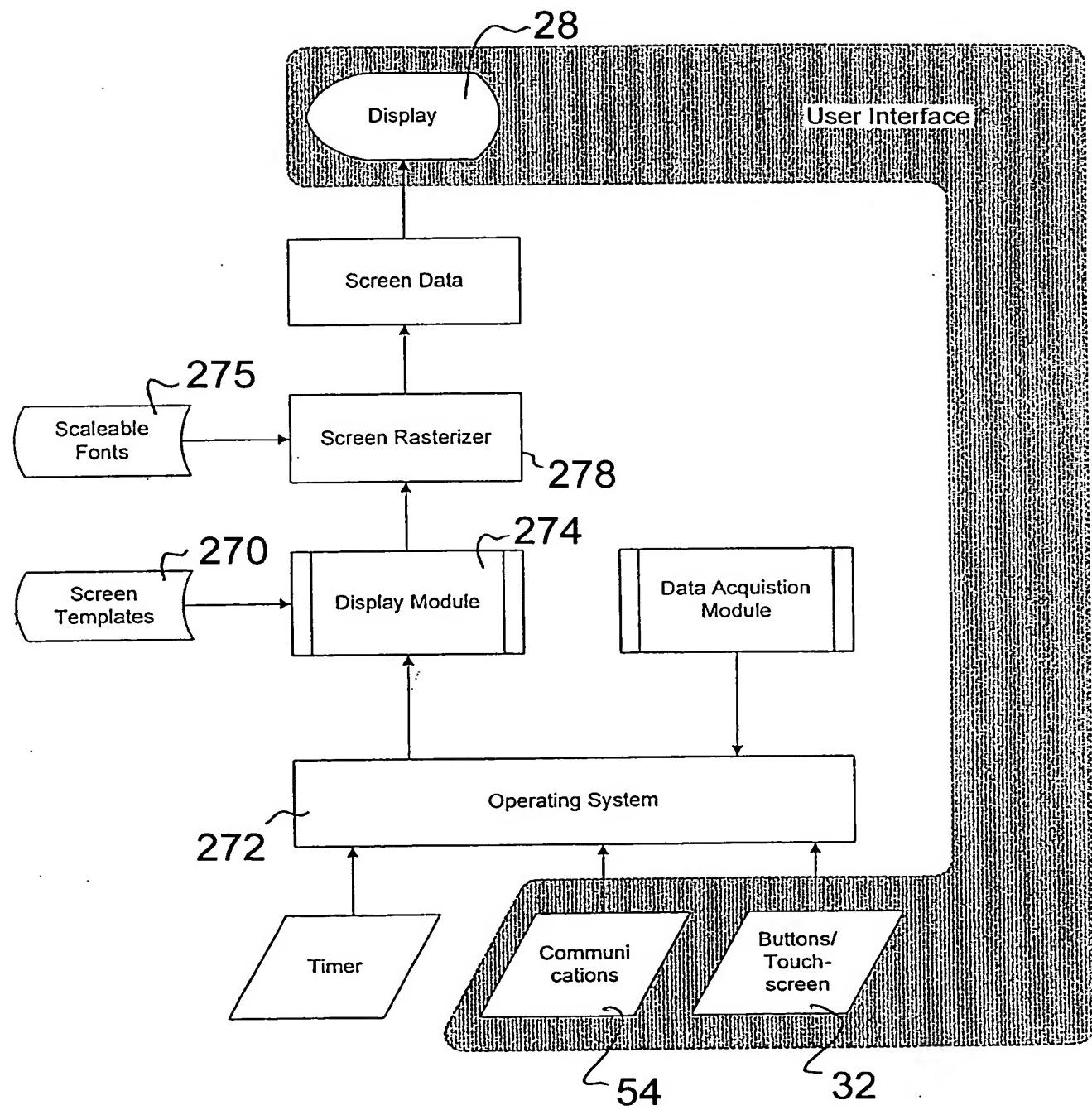


FIG. 14

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

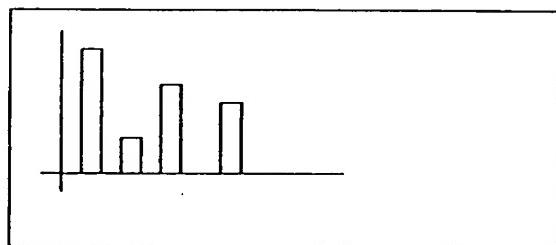


FIG. 15

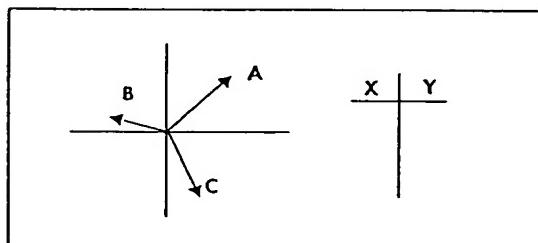


FIG. 16

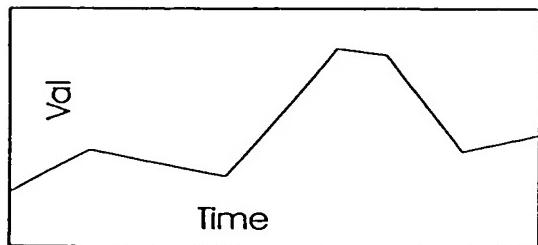


FIG. 17

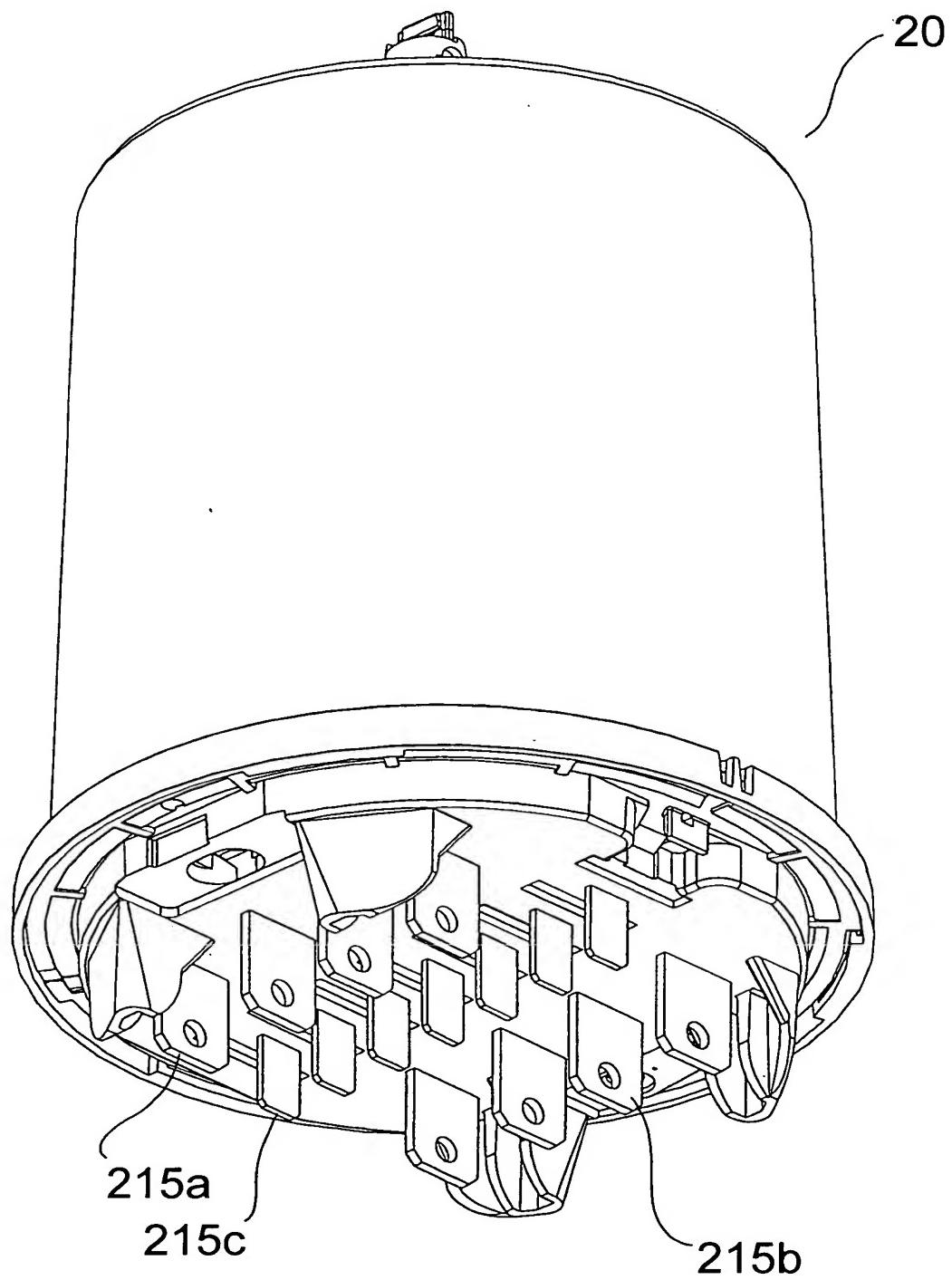


FIG. 18

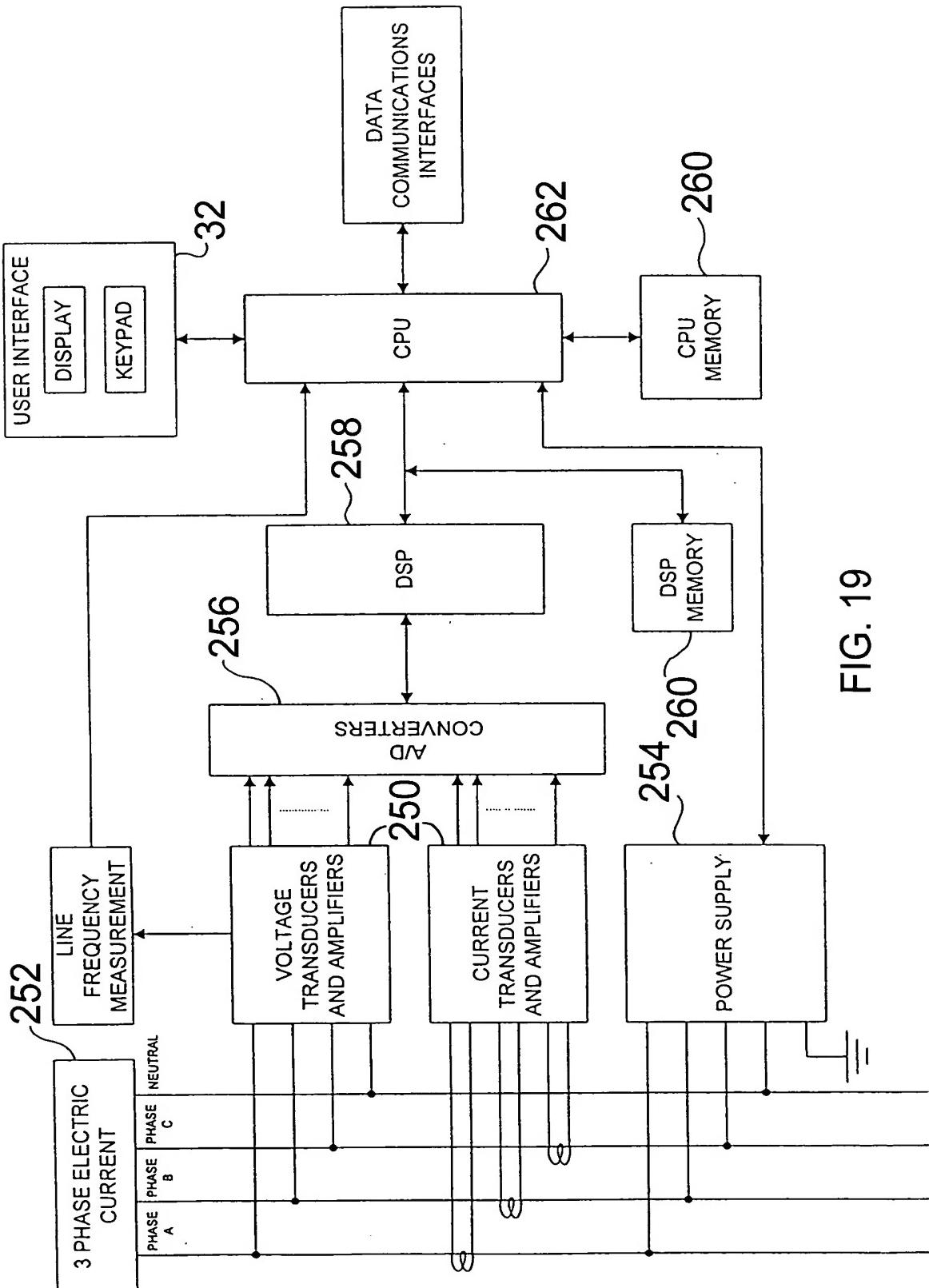


FIG. 19

**FIG. 20a**

To Fig. 20b

2

1

S-032PV  
S-032PV/SCH

To Fig. 20d

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER  
Inventor(s): David W. Giles et al  
Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 20b**

To Fig. 20c

To Fig. 20a

३

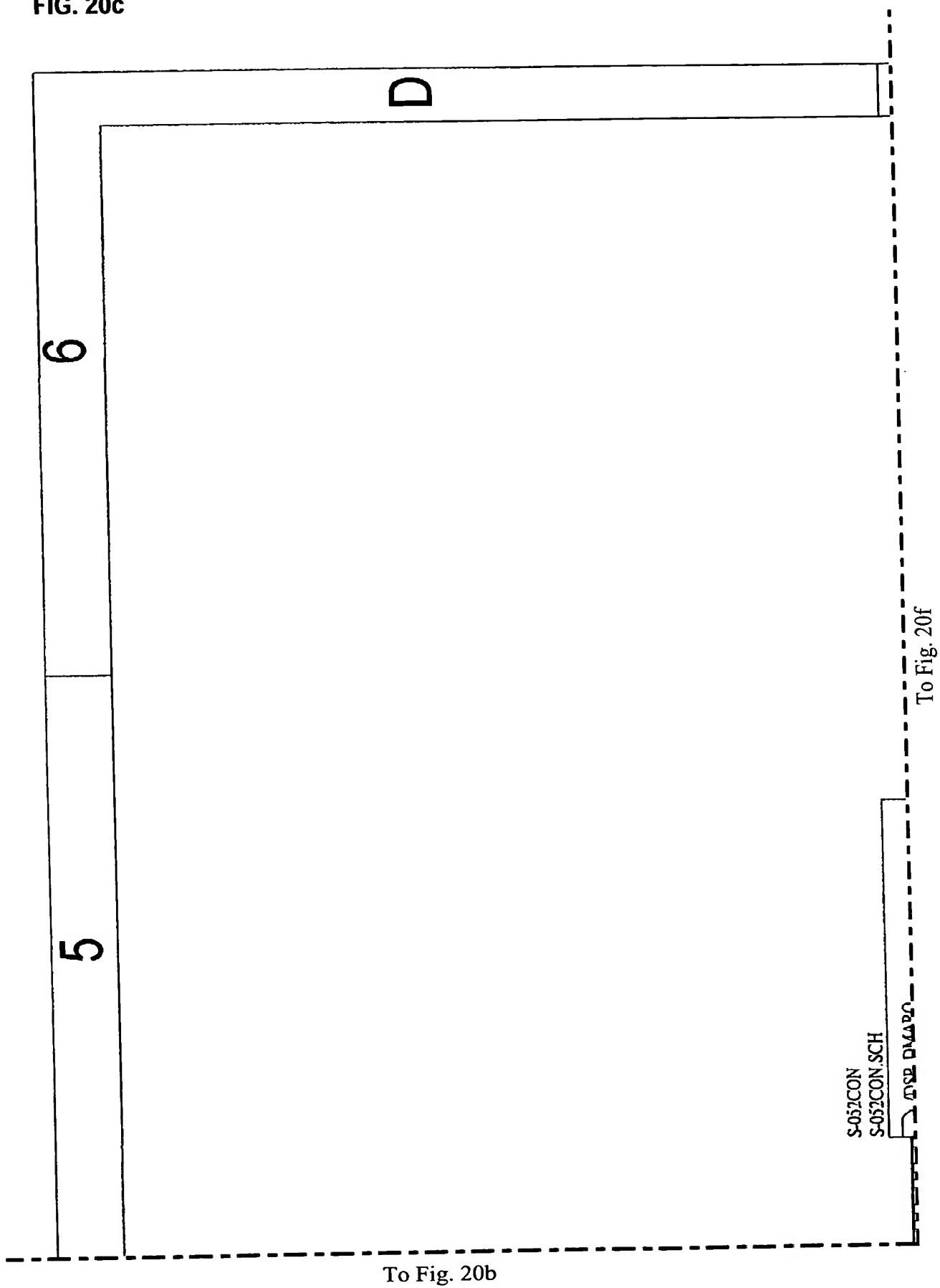
七

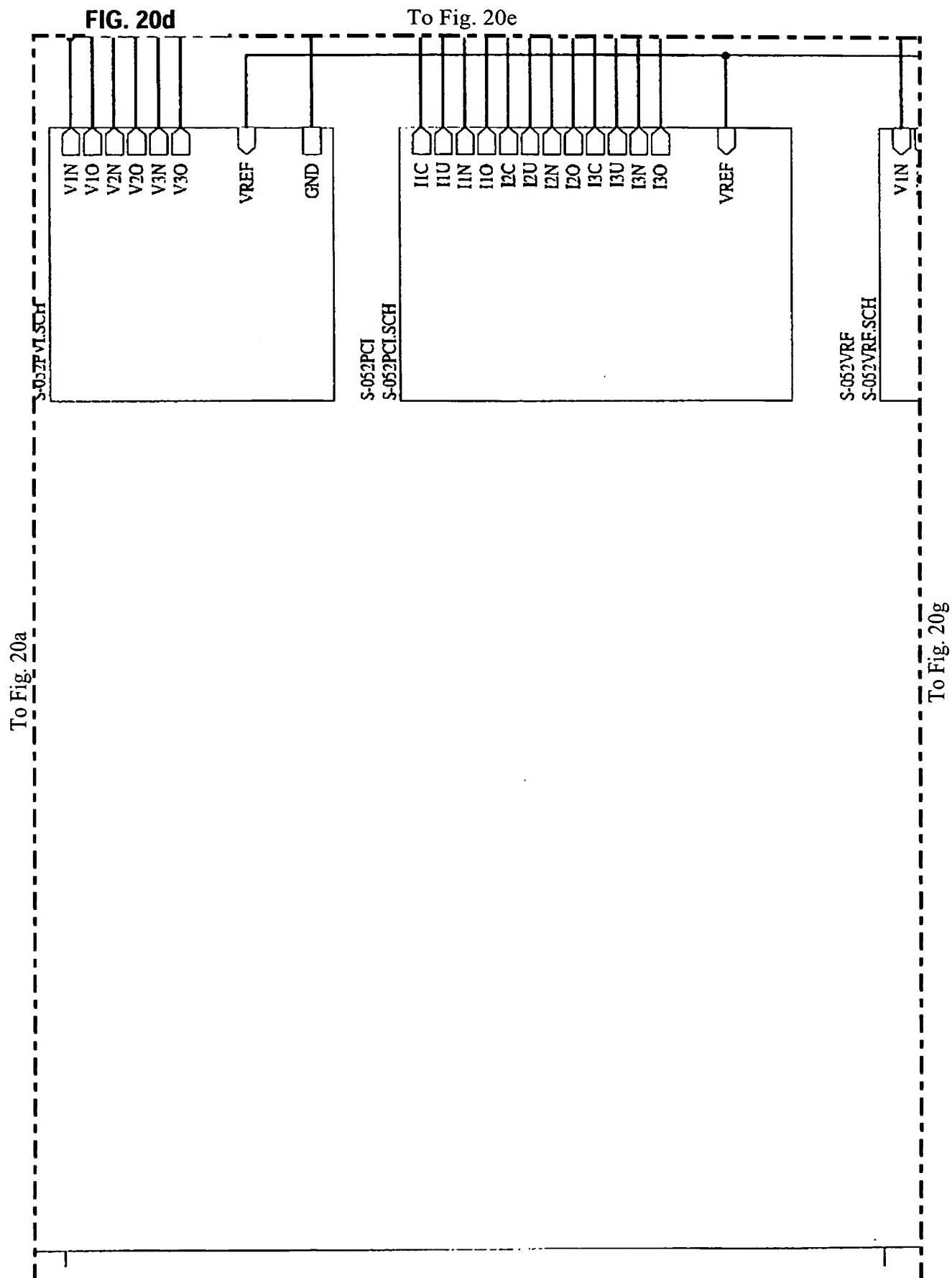
S-052ADC

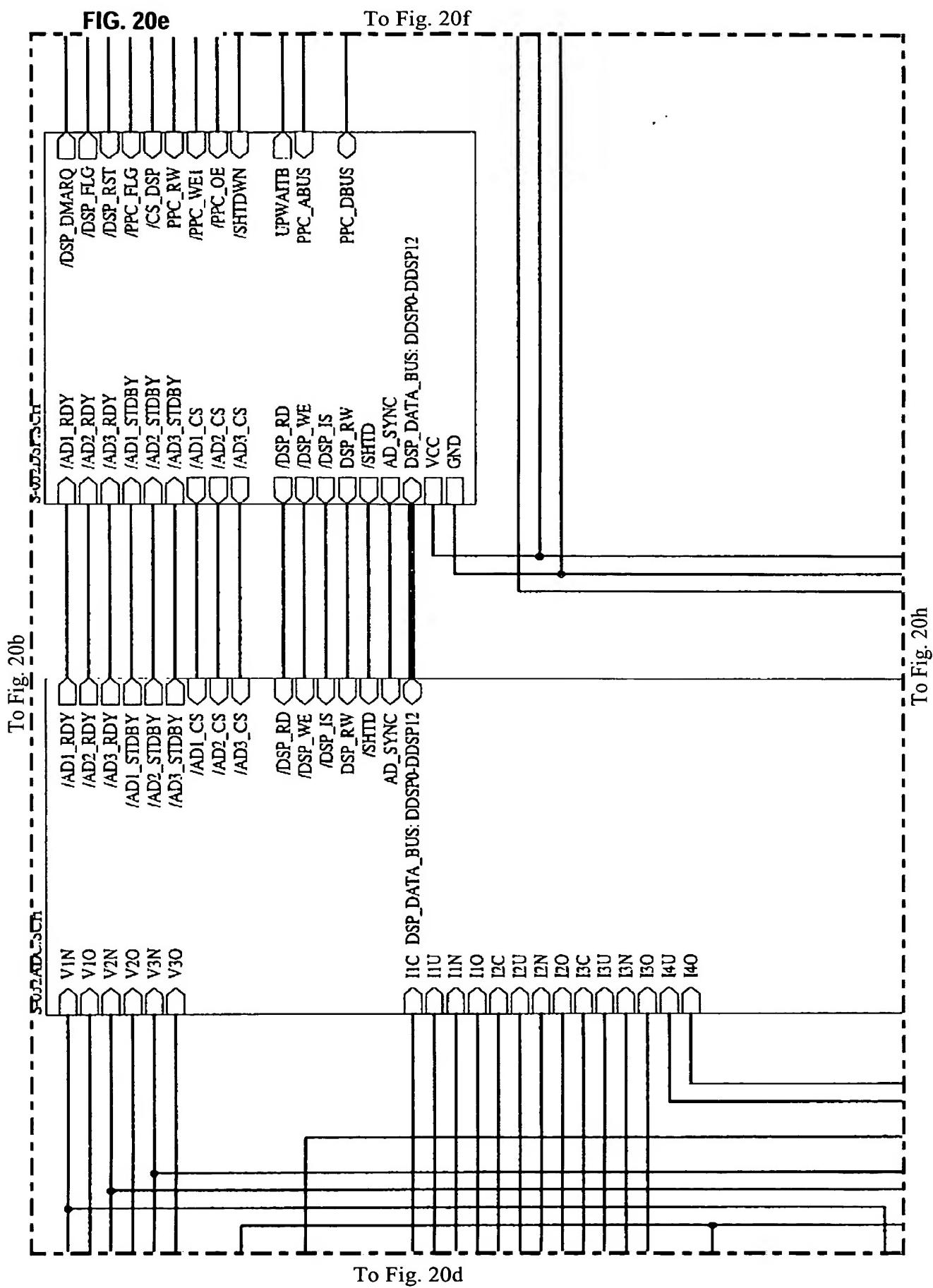
S-052DSP

To Fig. 20e

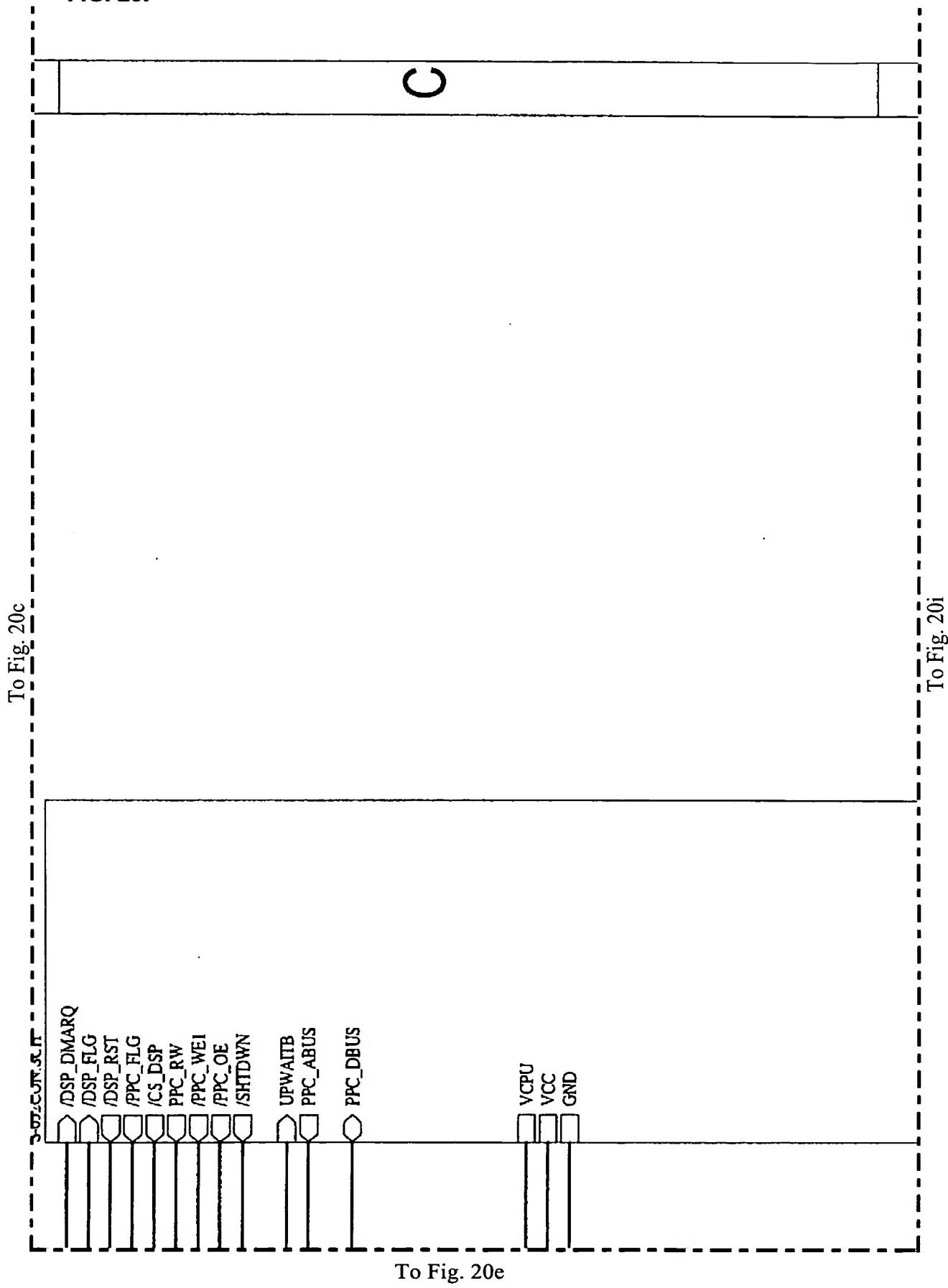
**FIG. 20c**

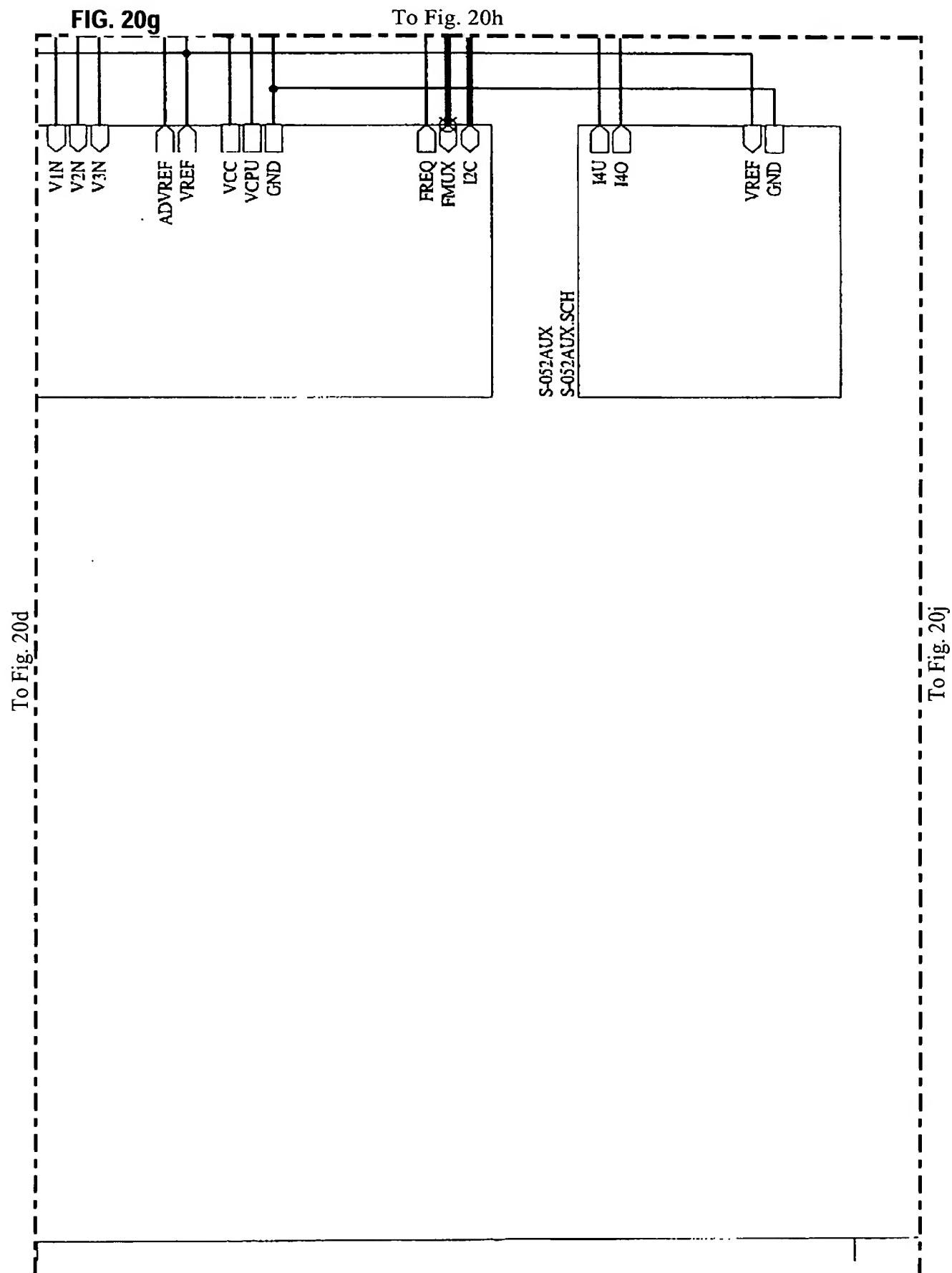






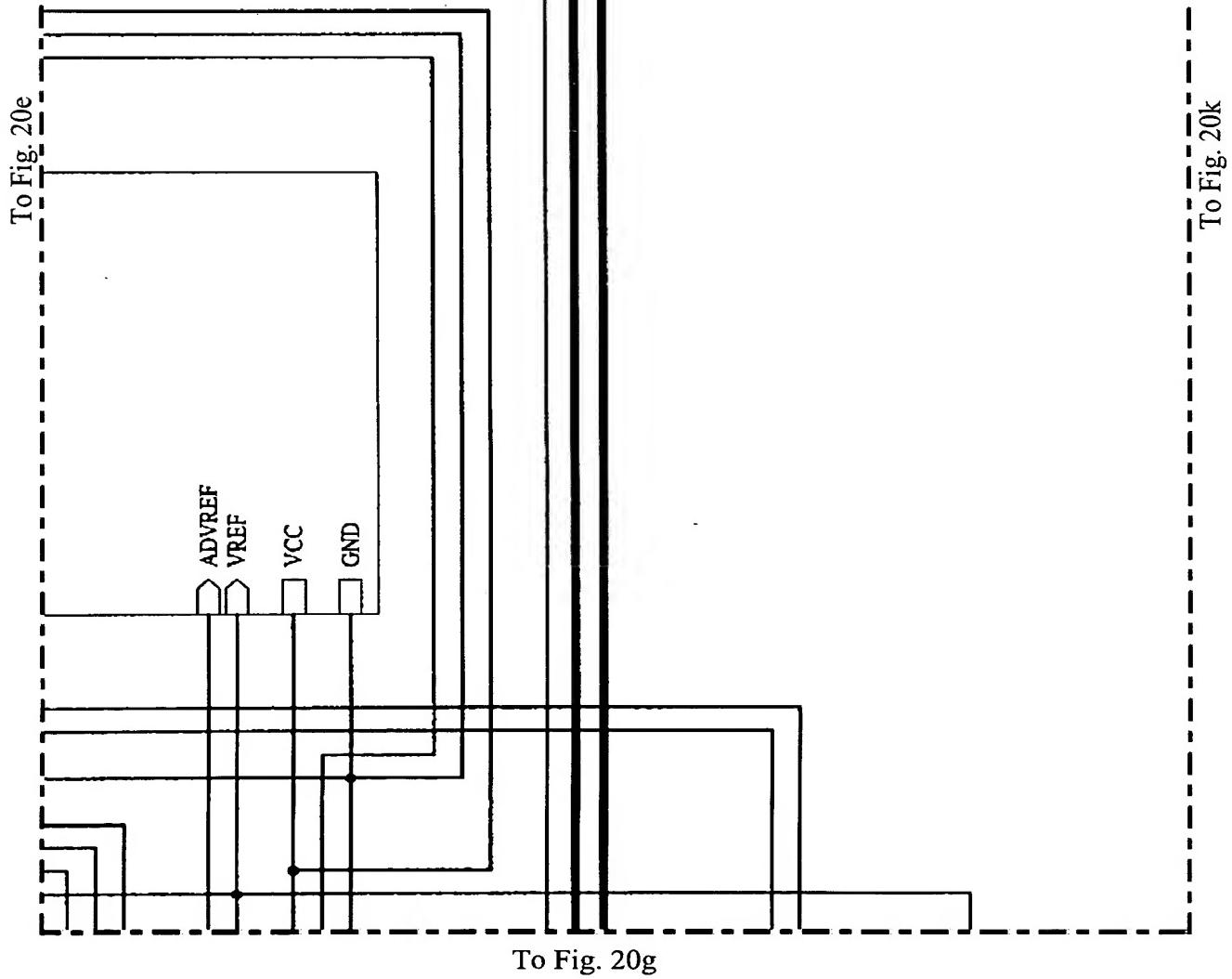
**FIG. 20f**



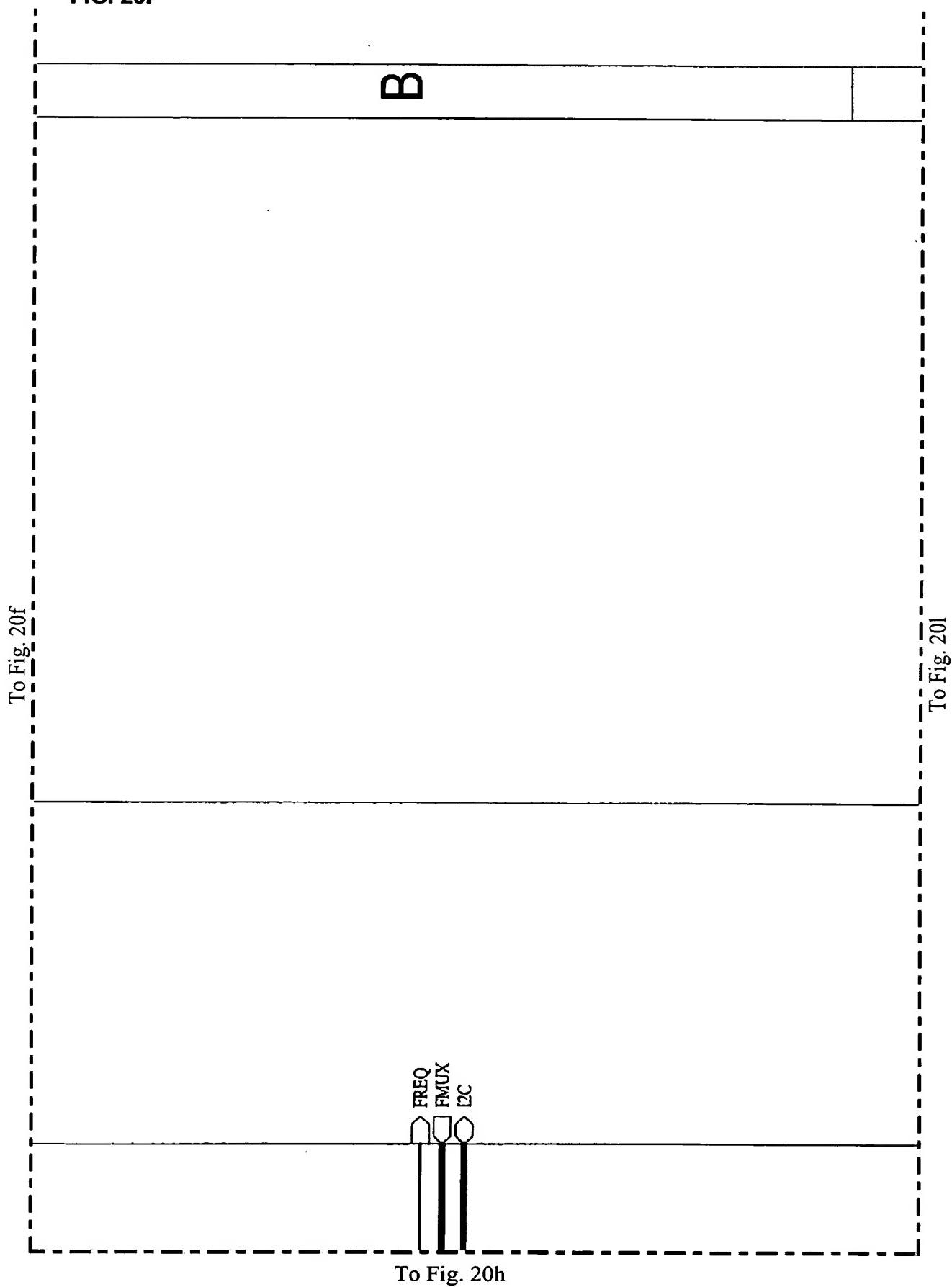


**FIG. 20h**

To Fig. 20i



**FIG. 20i**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 20j**

To Fig. 20k

To Fig. 20g

2

1

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 20k**

To Fig. 20l

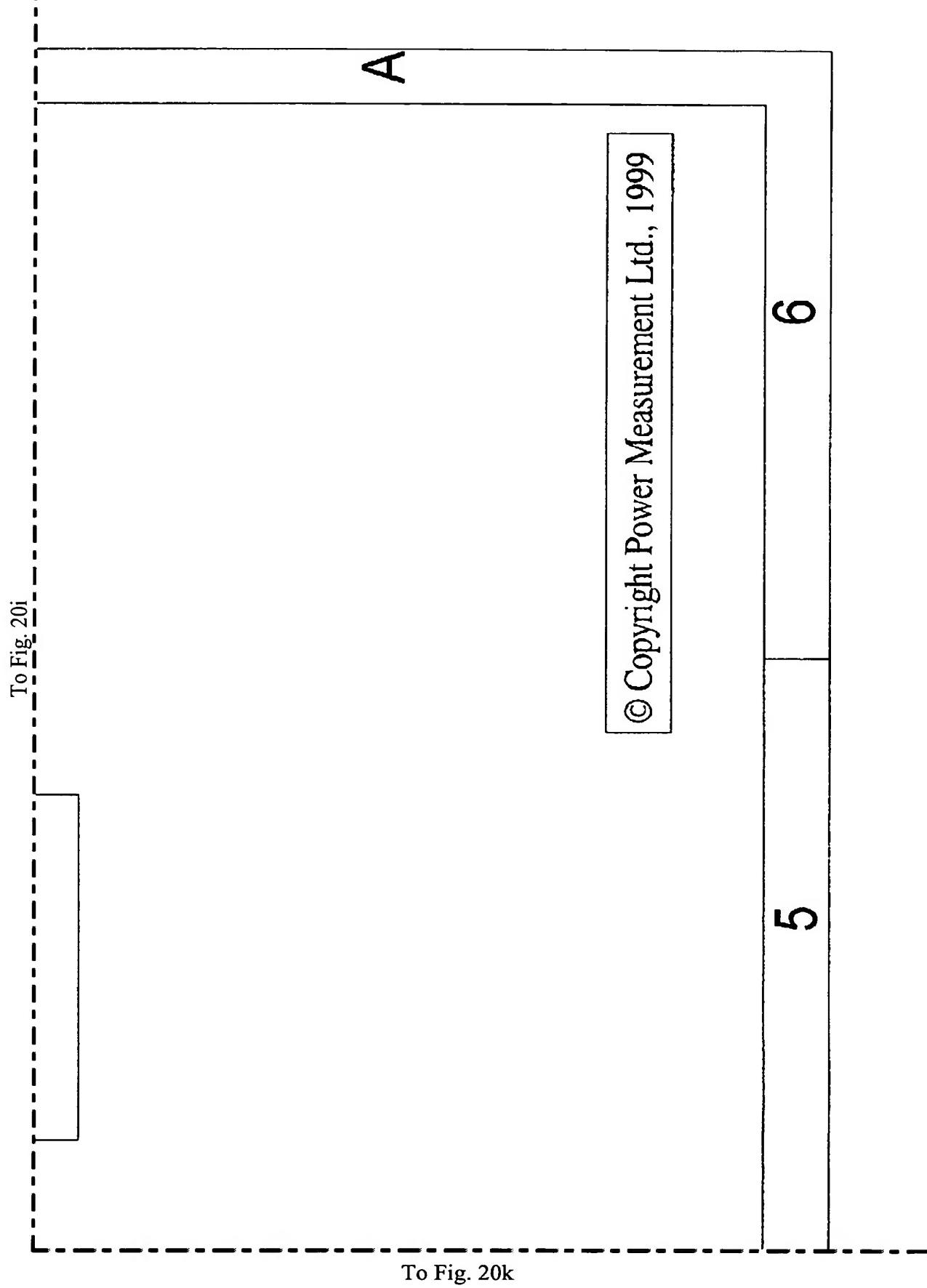
To Fig. 20h

**4**

**3**

To Fig. 20j

**FIG. 20I**



**FIG. 21a**

To Fig. 21b

**2**

ISOLATION BARRIER, 3250 Vrms (60 Hz) for 1 minute

**1**

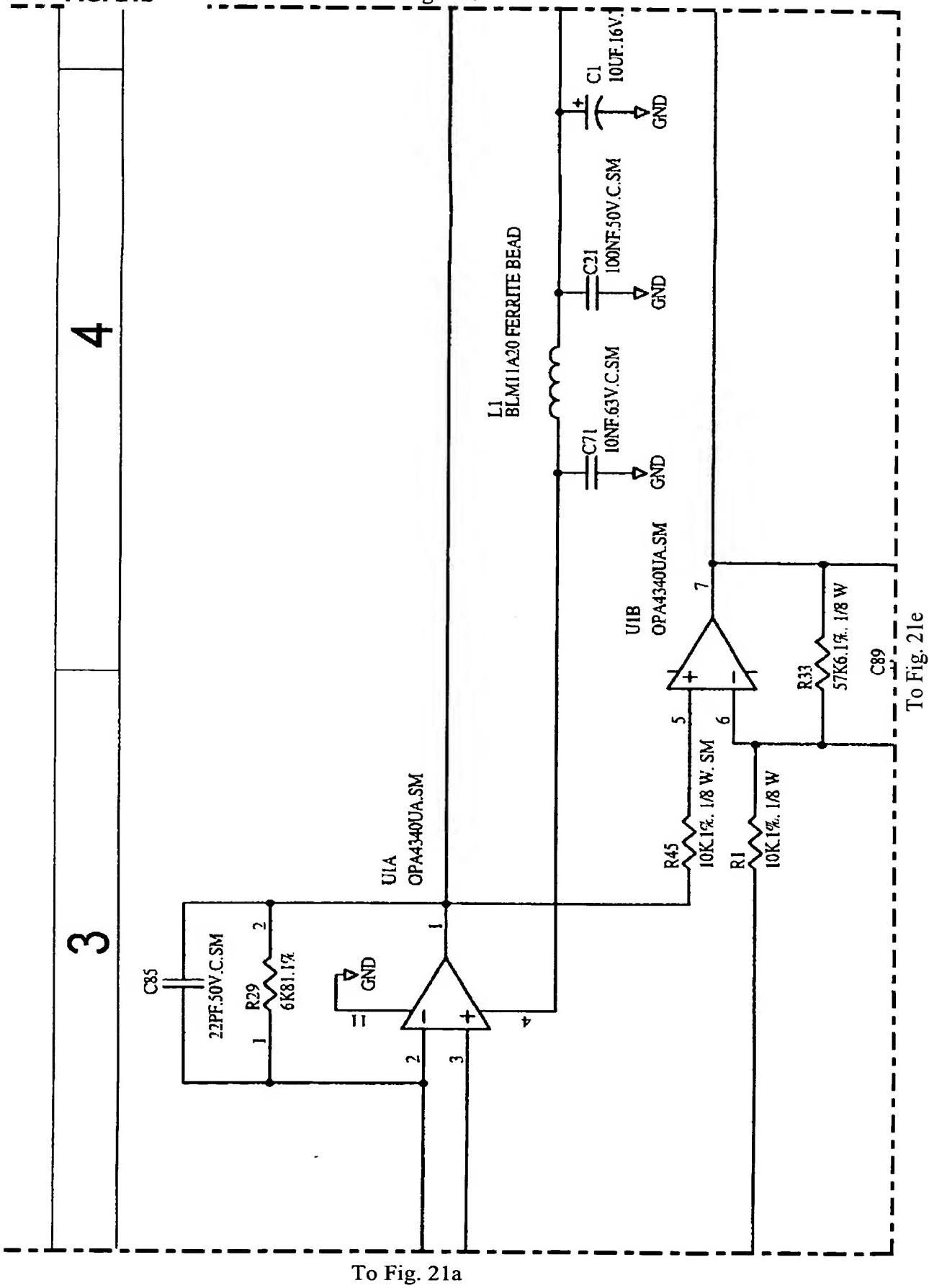
PHASE C VOLTAGE INPUT

CN4A  
HEAD9.MOLEX.LOCK.RA  
R.36  
5M, 1%, 1/2W, MO

To Fig. 21d

**FIG. 21b**

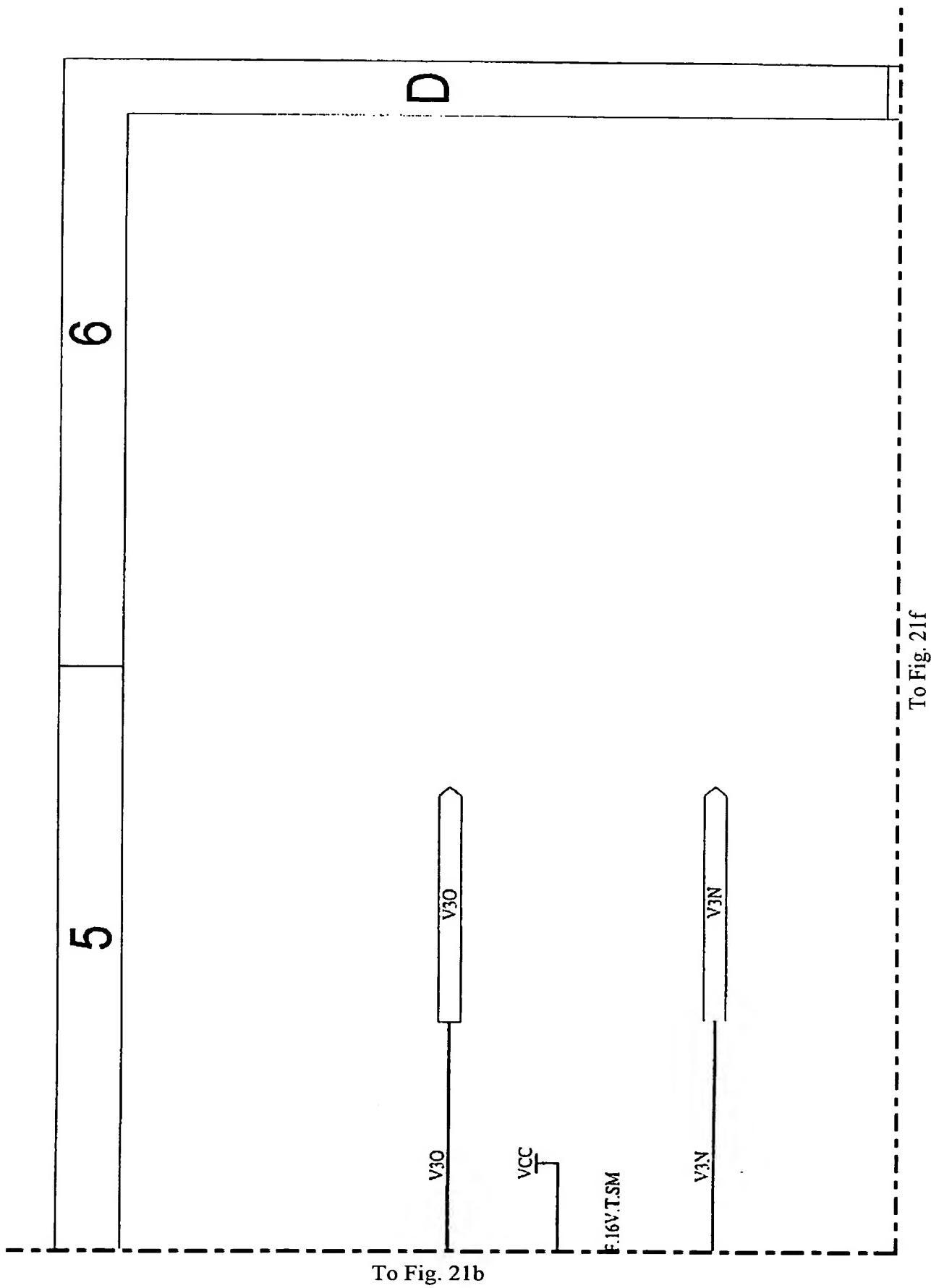
To Fig. 21c

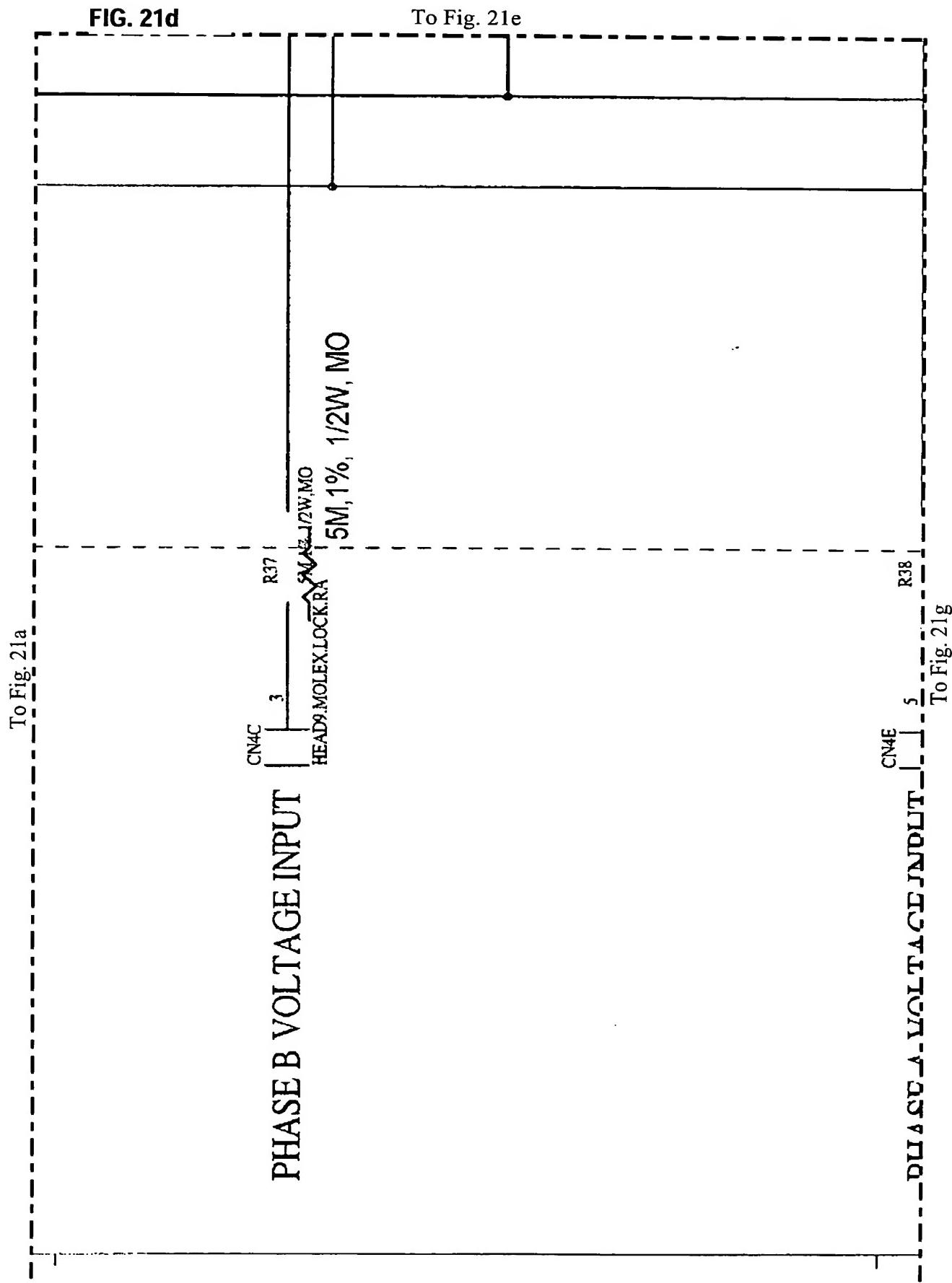


To Fig. 21a

To Fig. 21e

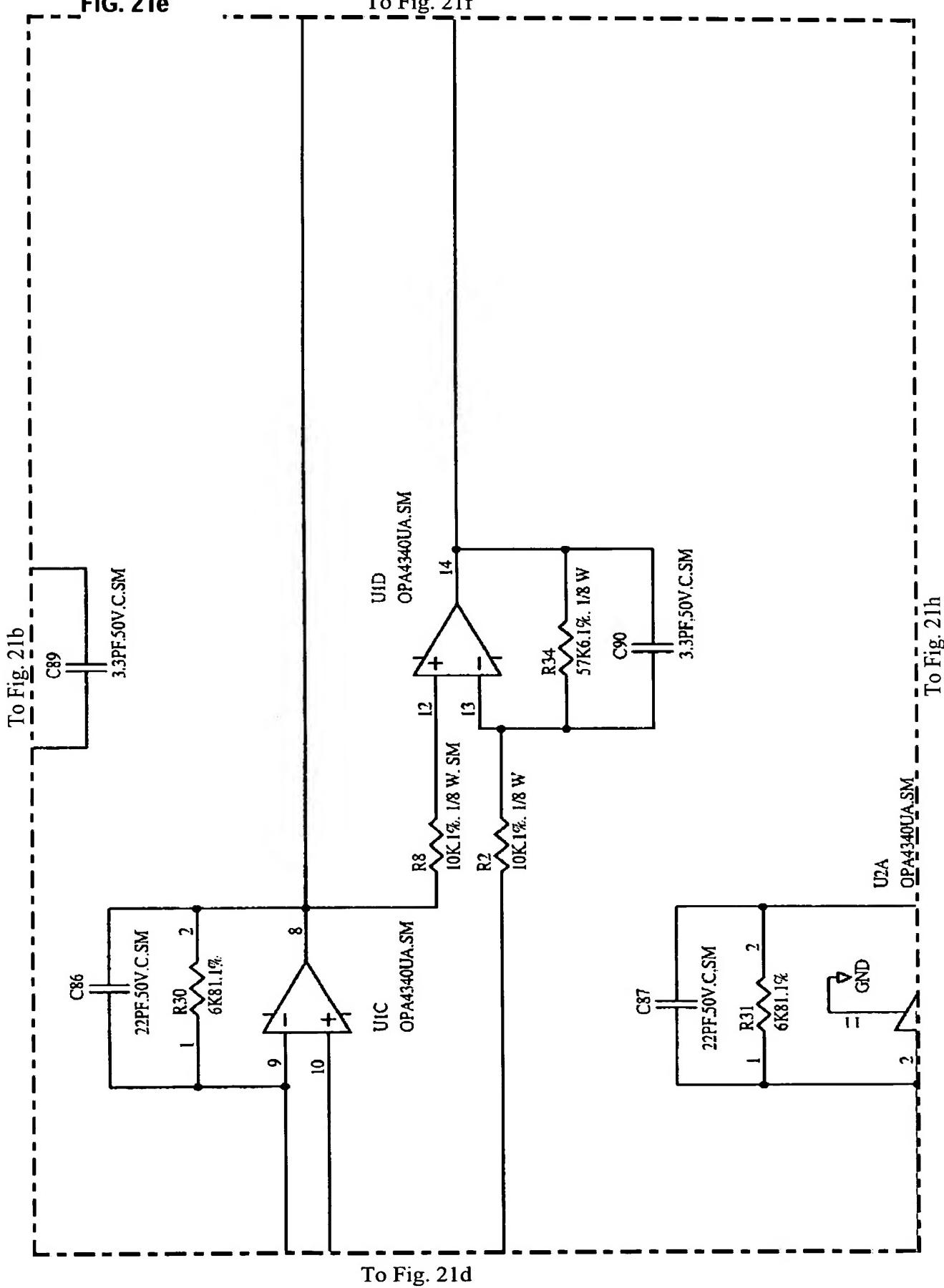
**FIG. 21c**



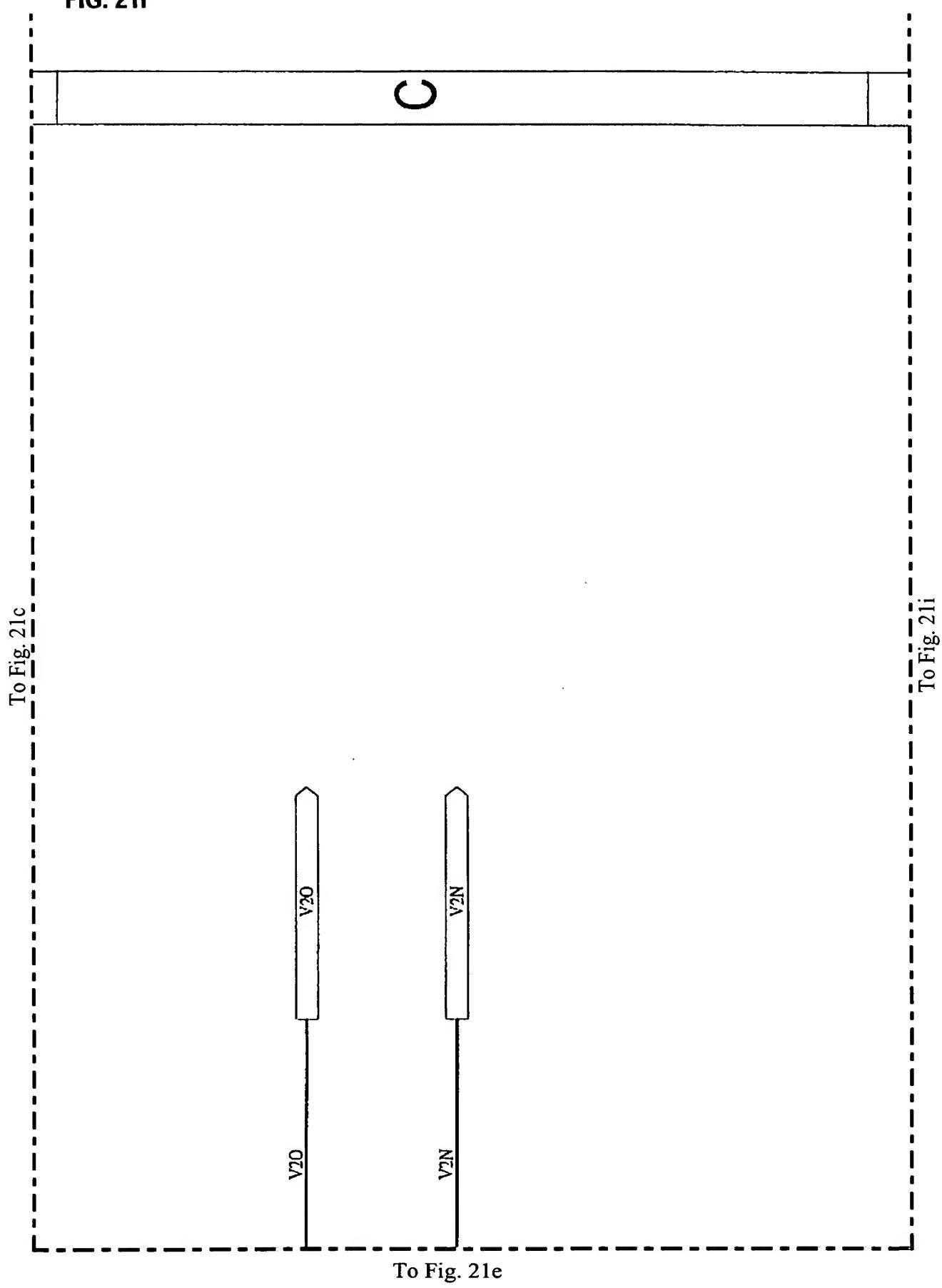


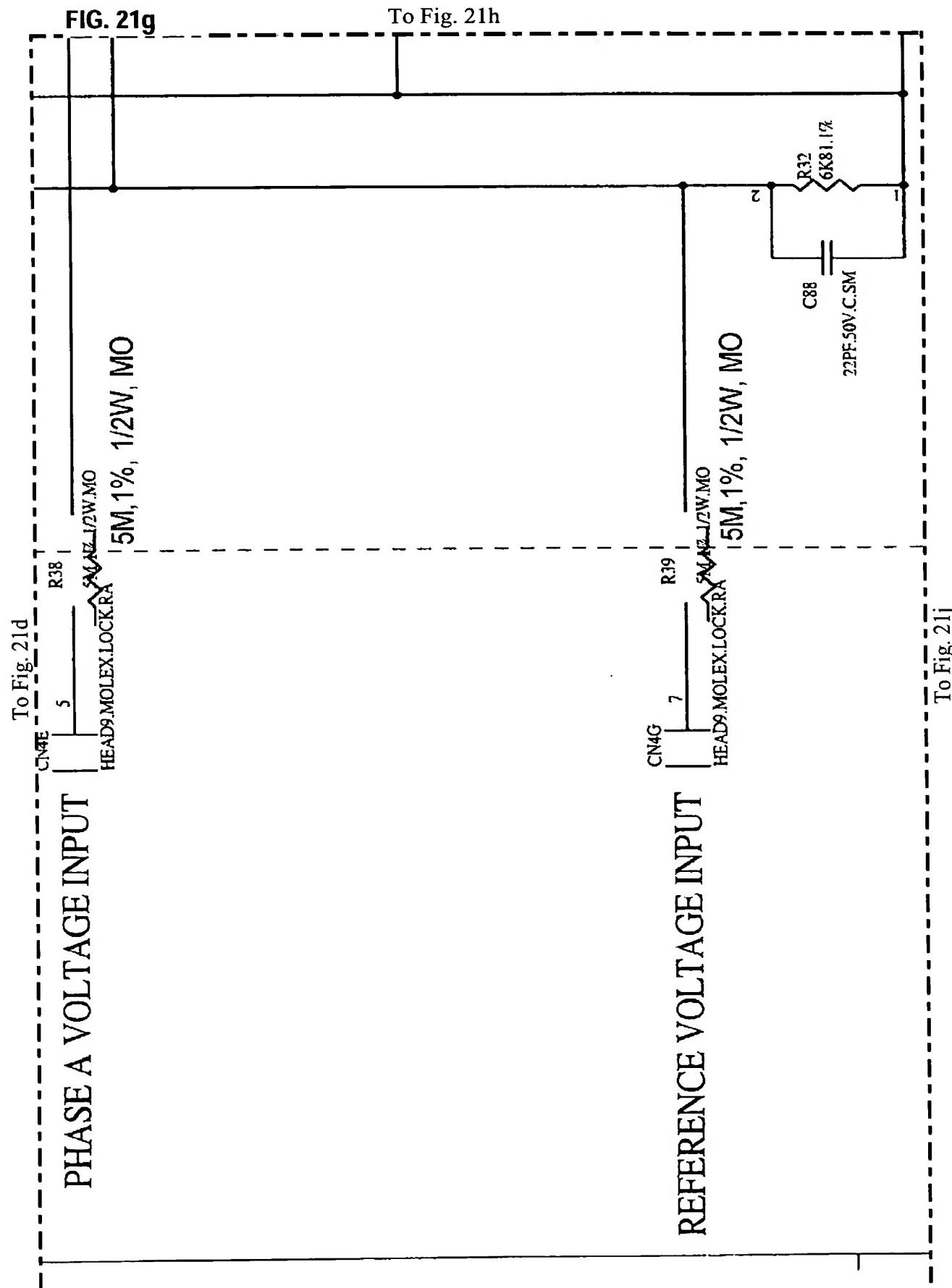
**FIG. 21e**

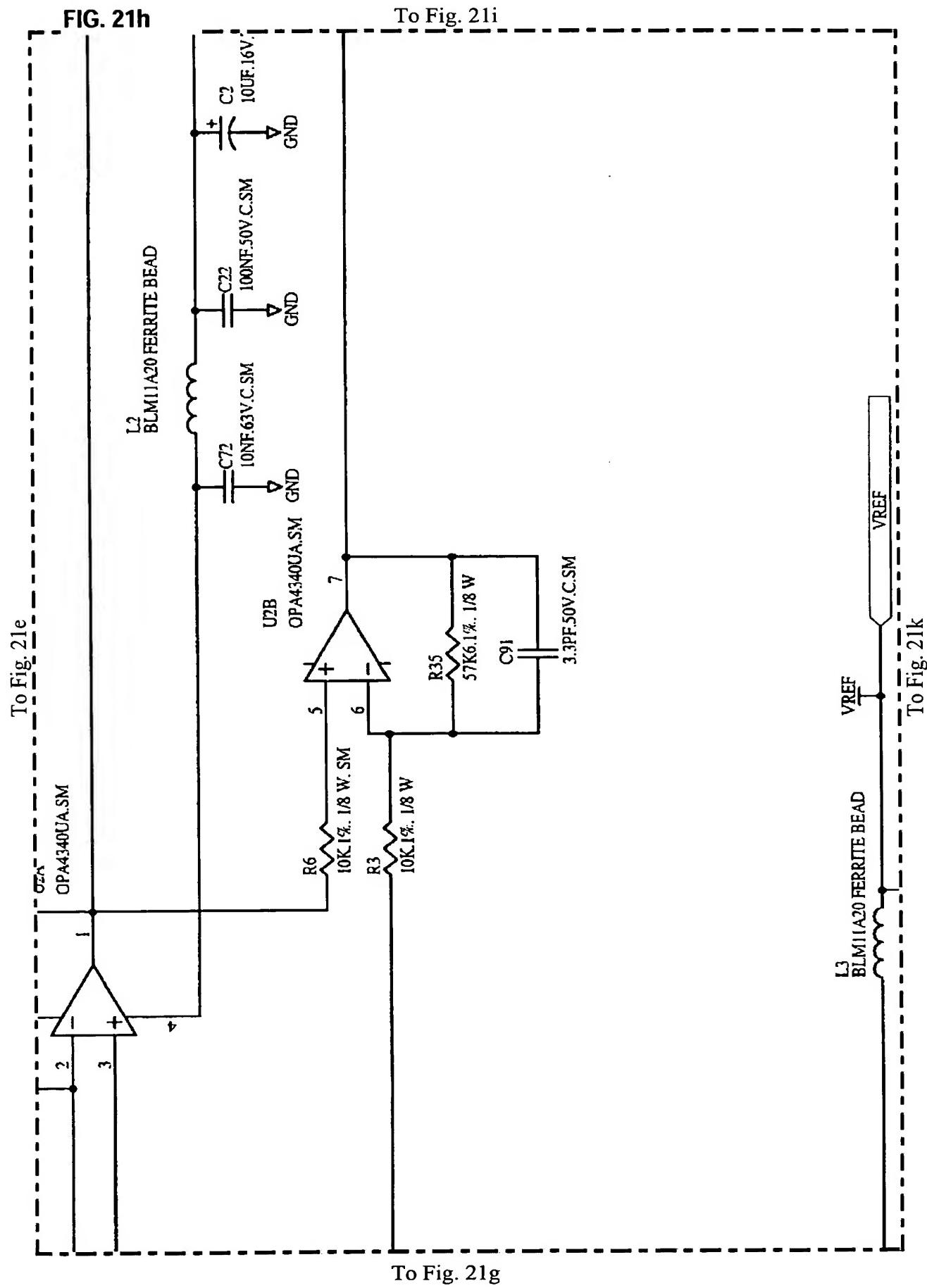
To Fig. 21f



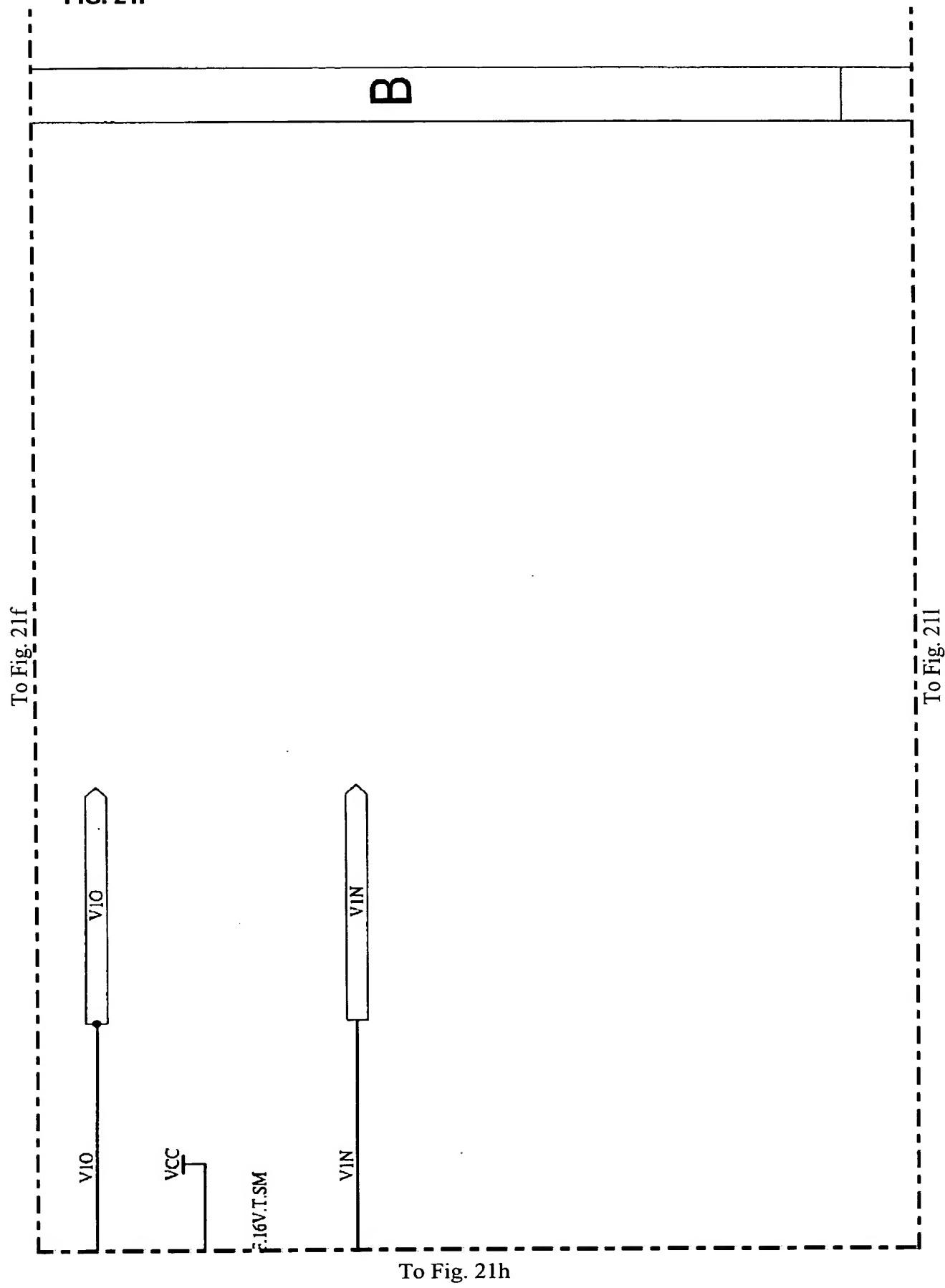
**FIG. 21f**





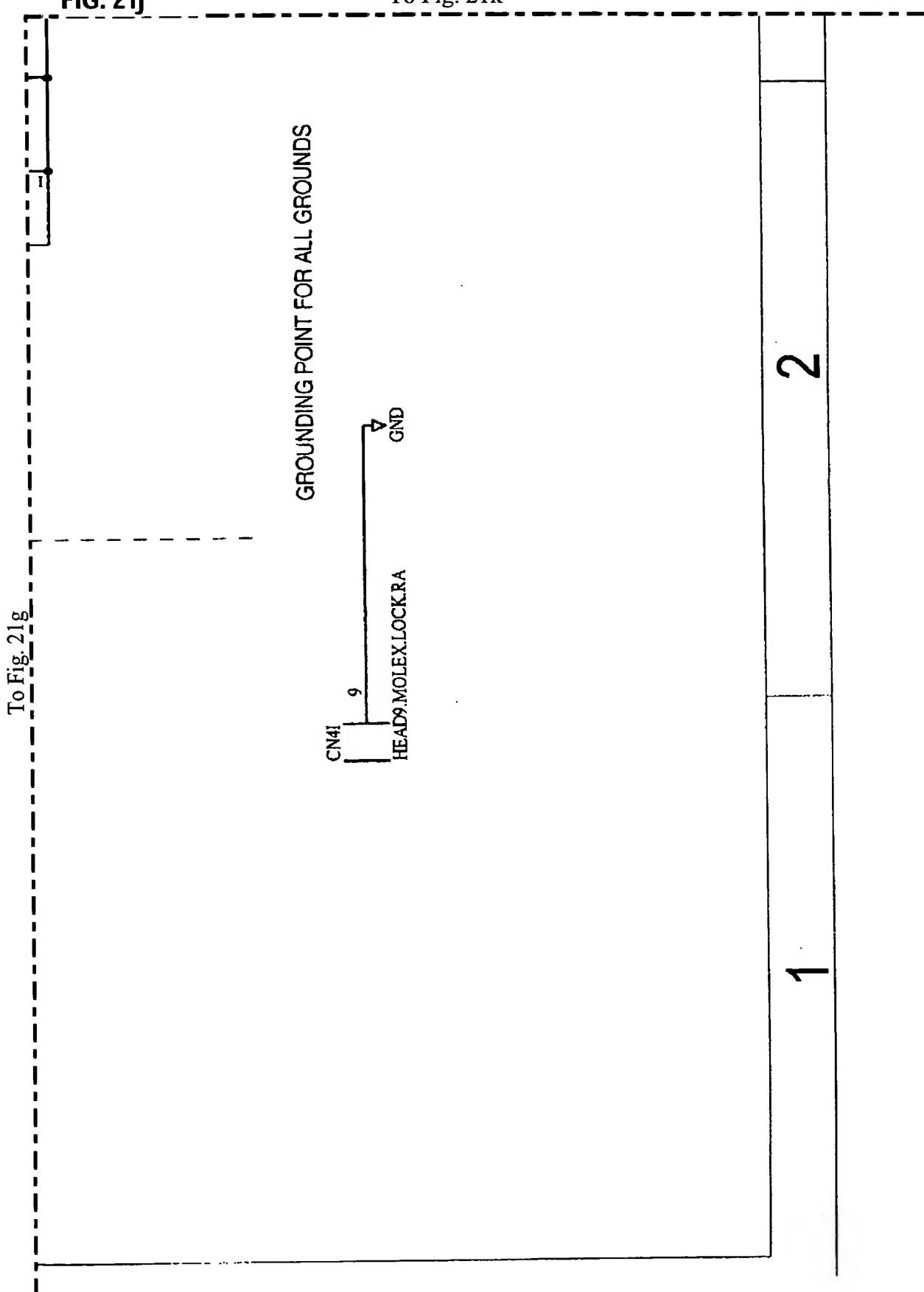


**FIG. 21i**

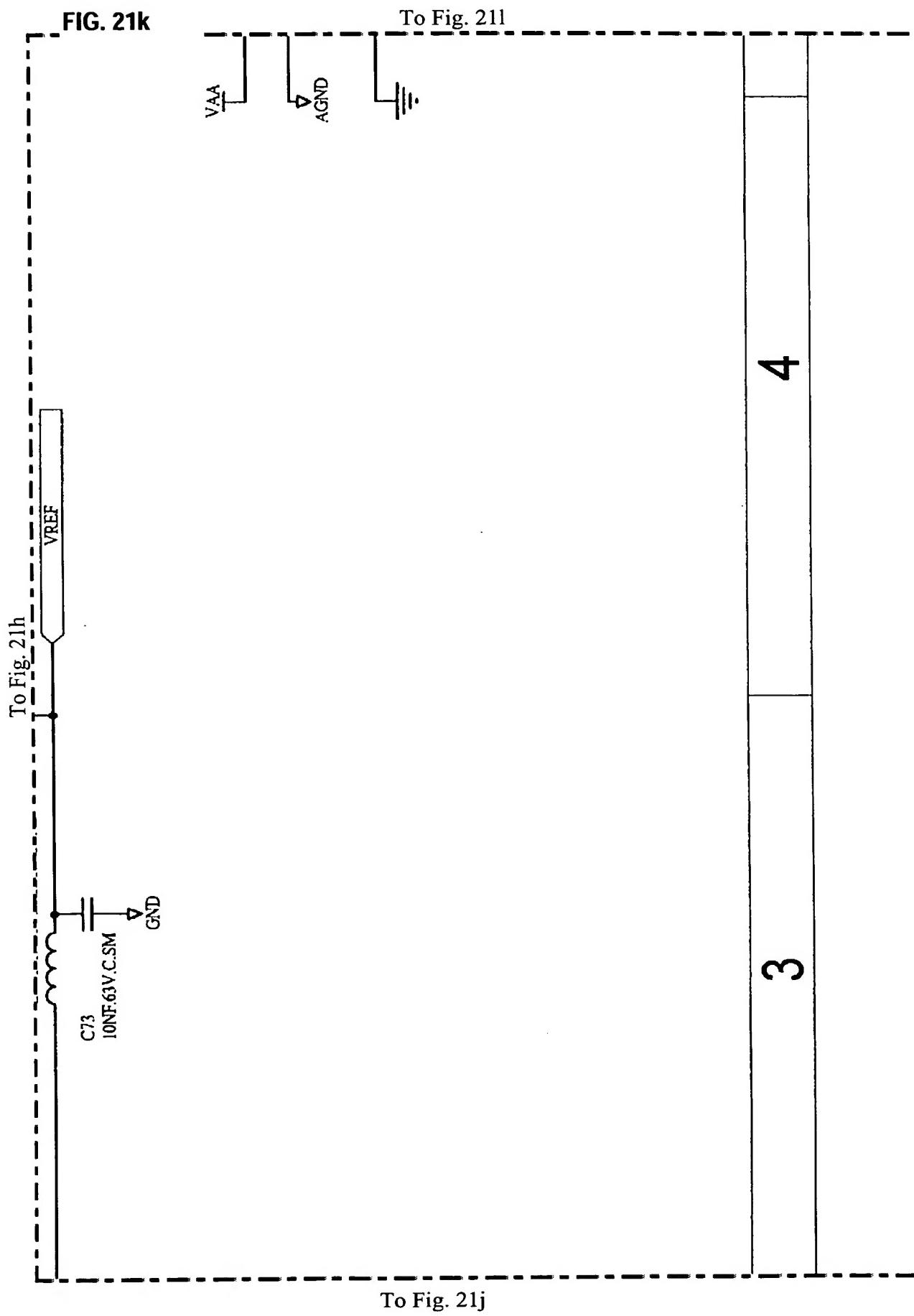


**FIG. 21j**

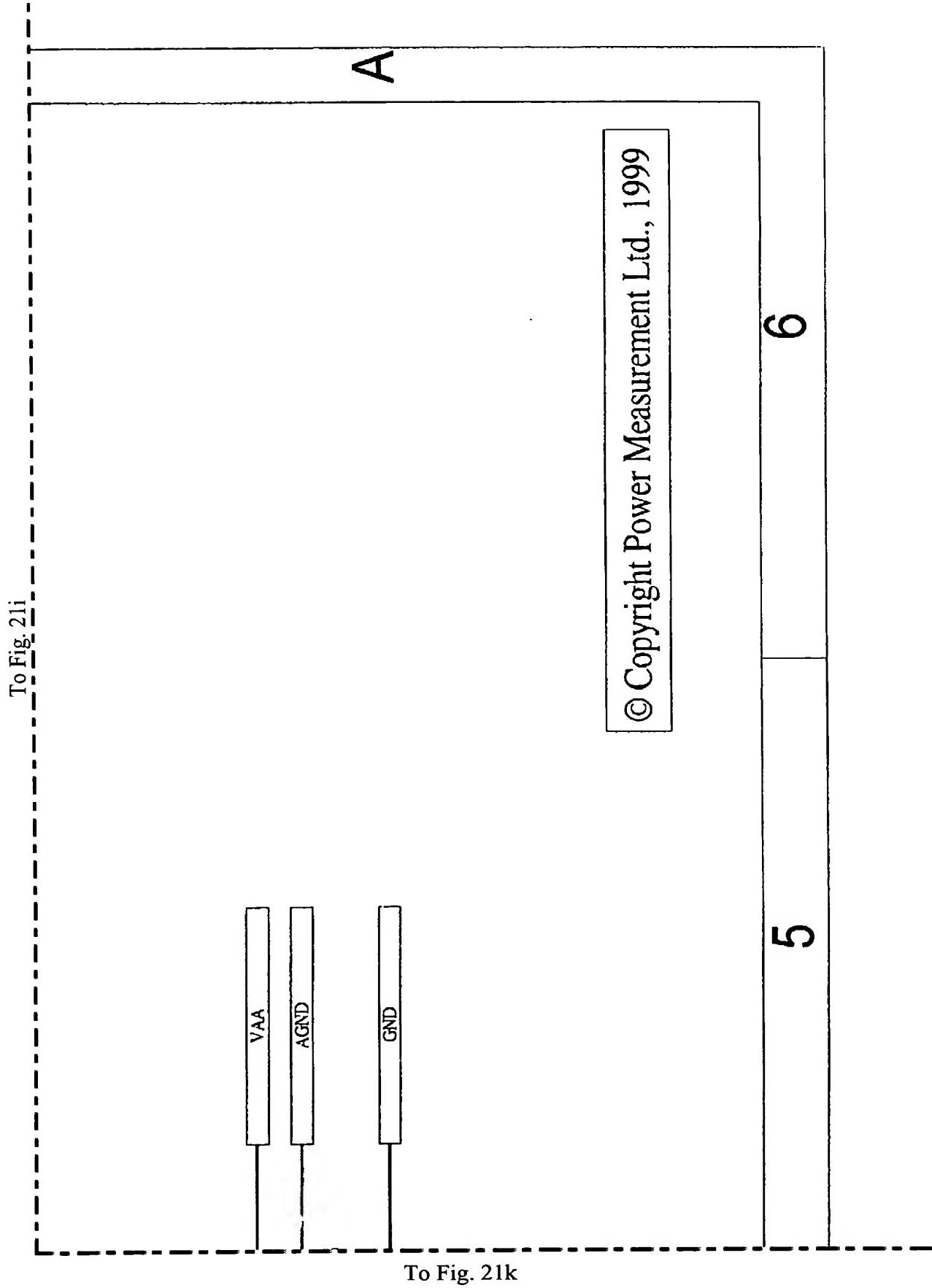
To Fig. 21k



**FIG. 21k**



**FIG. 21l**



Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 22a**

To Fig. 22b

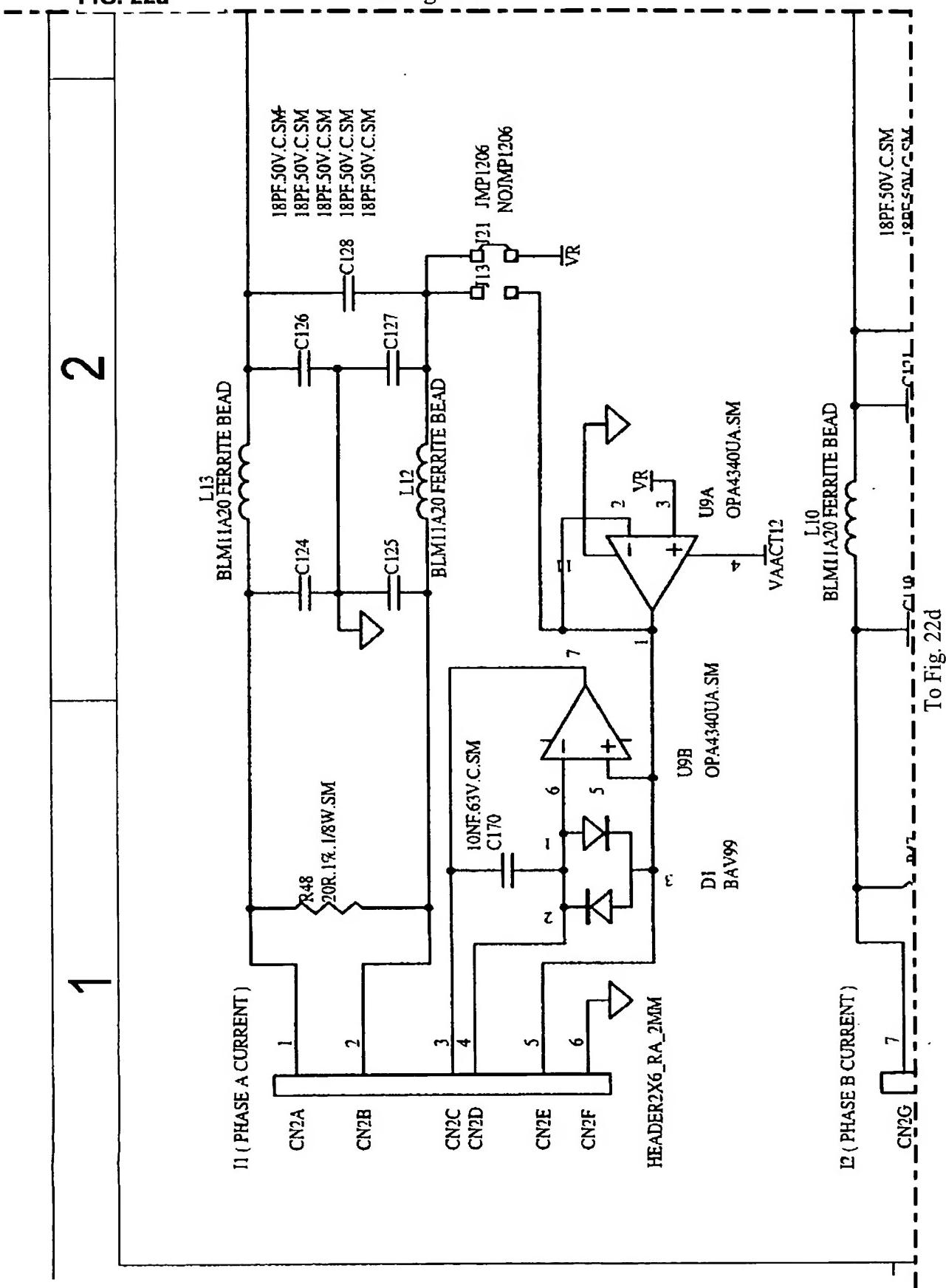
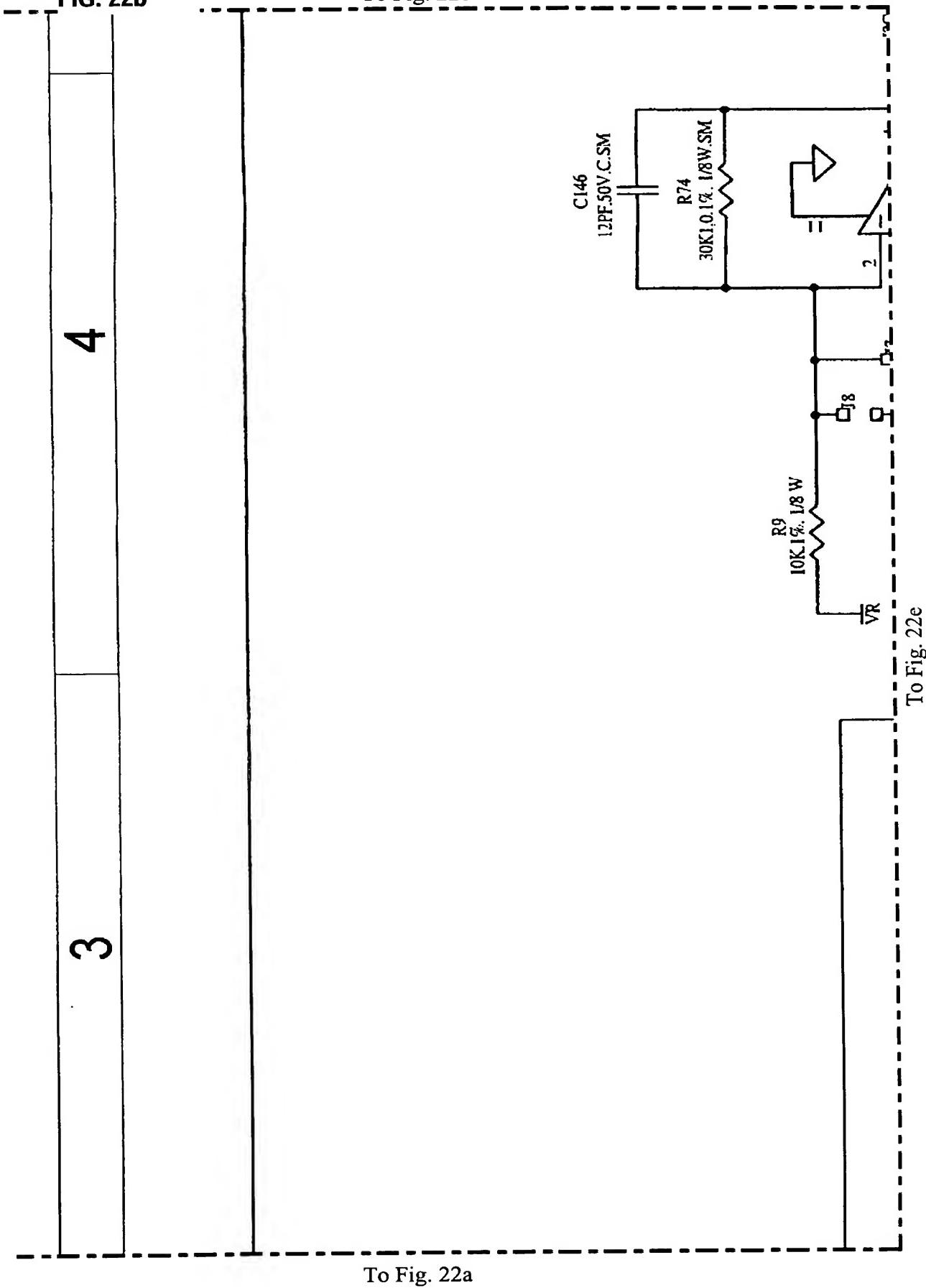


FIG. 22b

To Fig. 22c



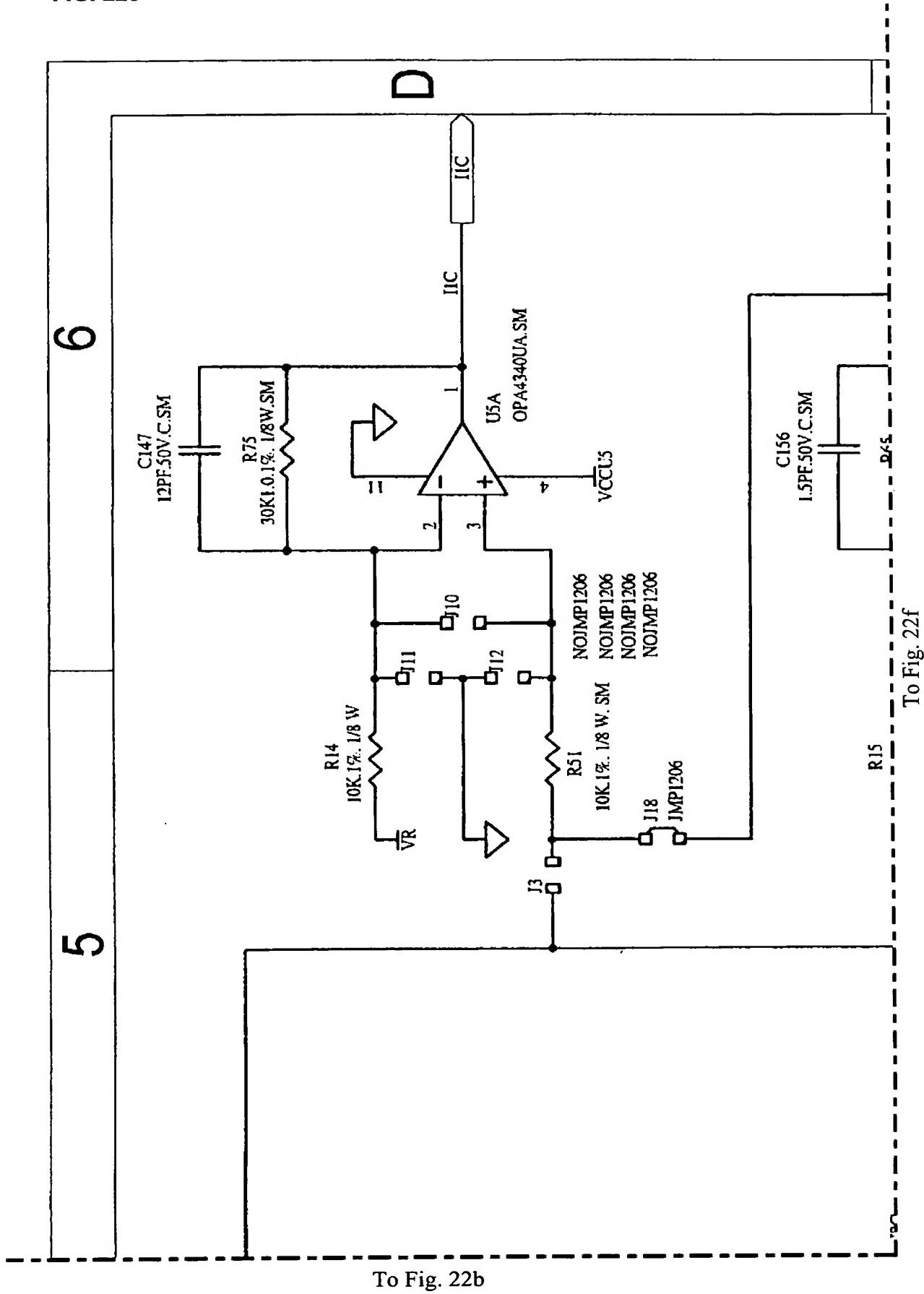
3

4

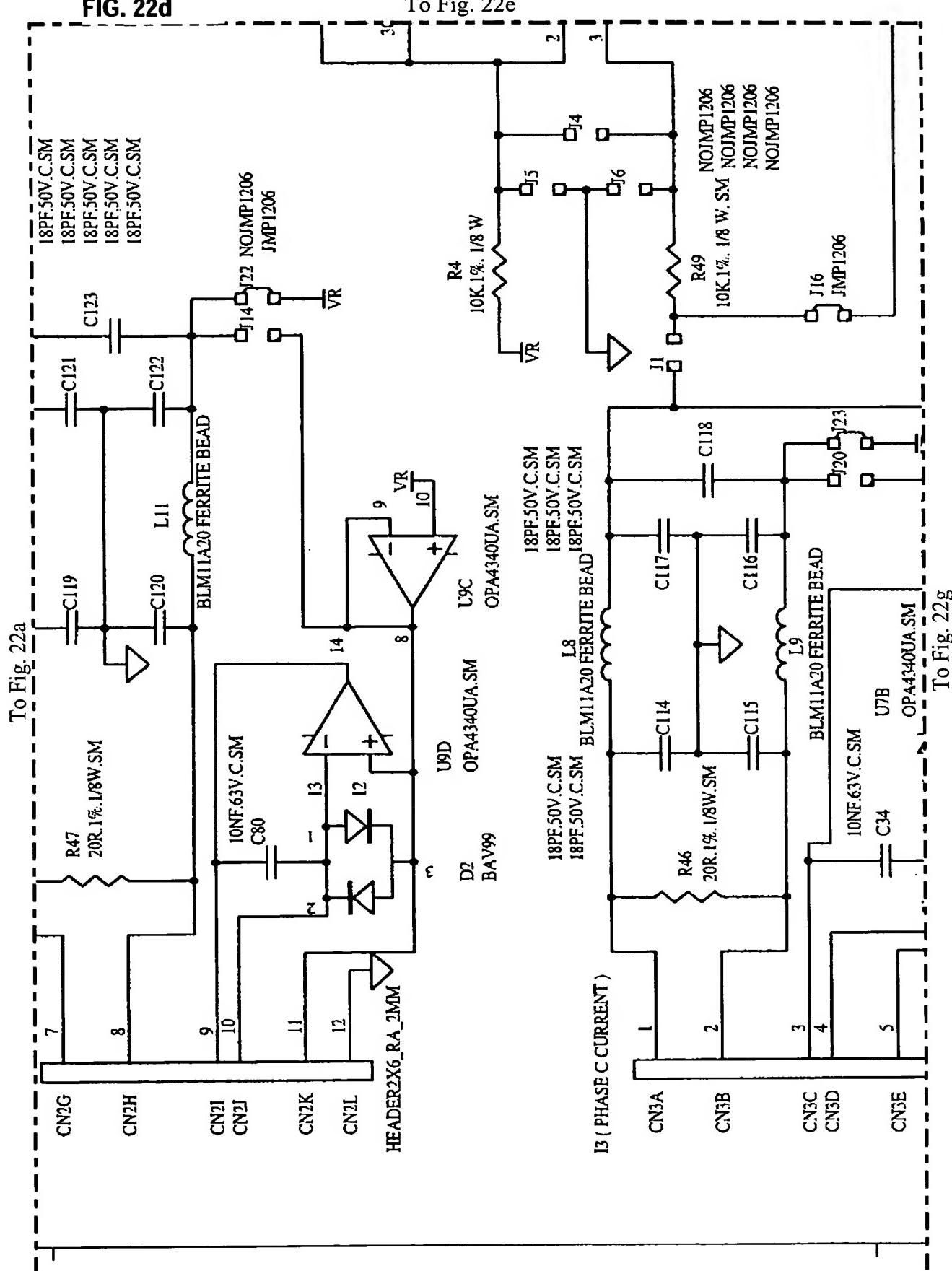
To Fig. 22a

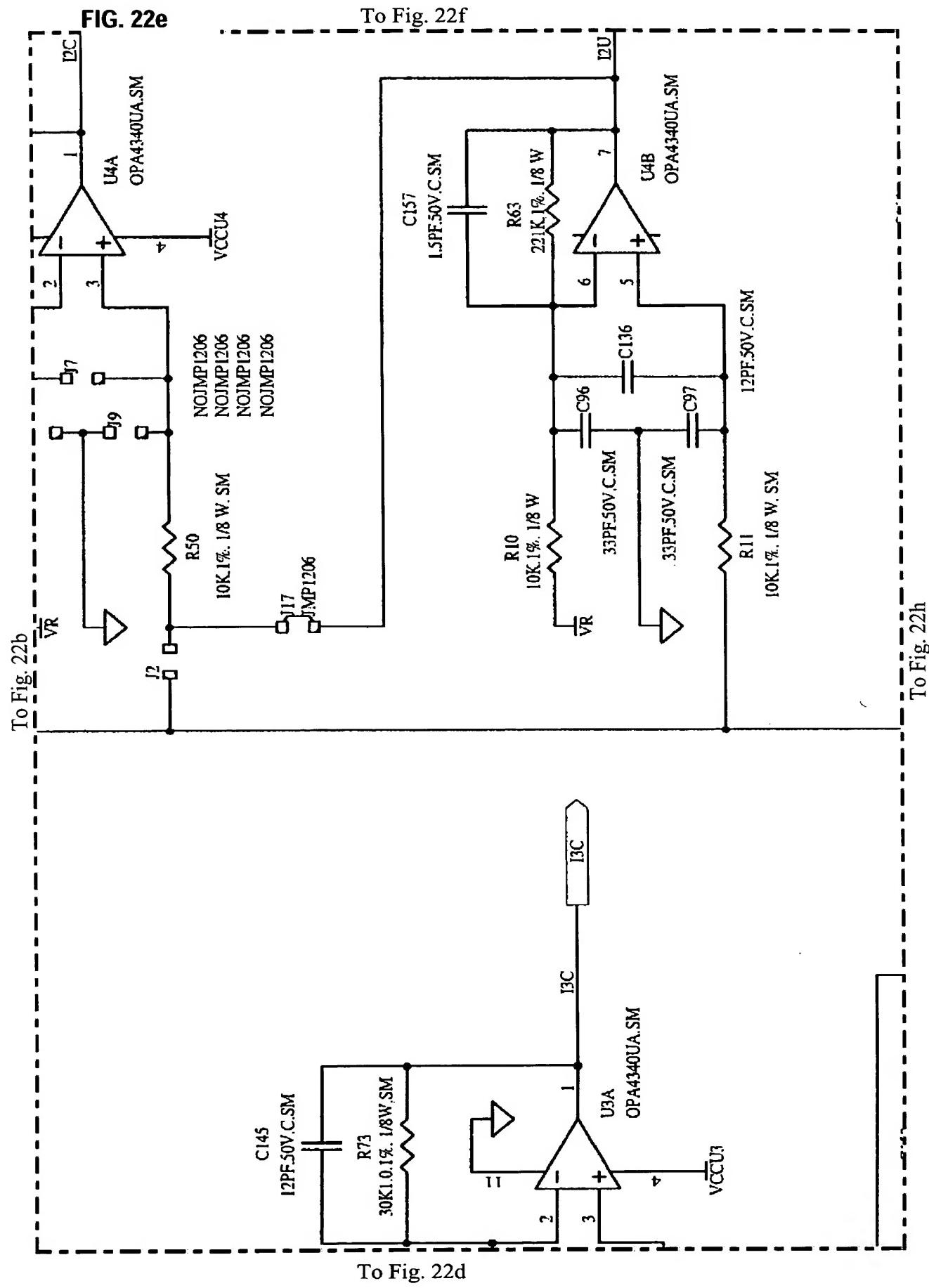
To Fig. 22c

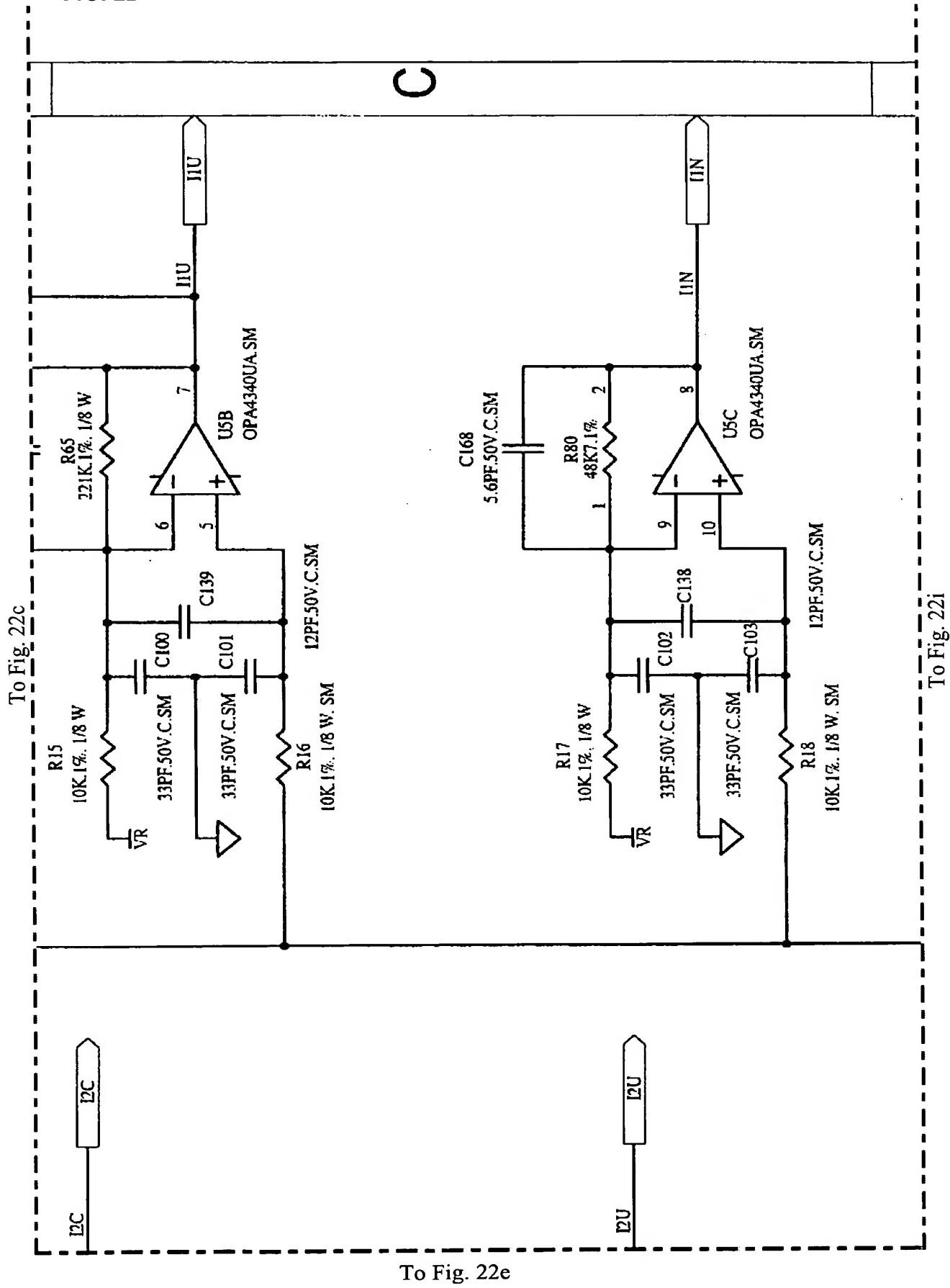
FIG. 22c



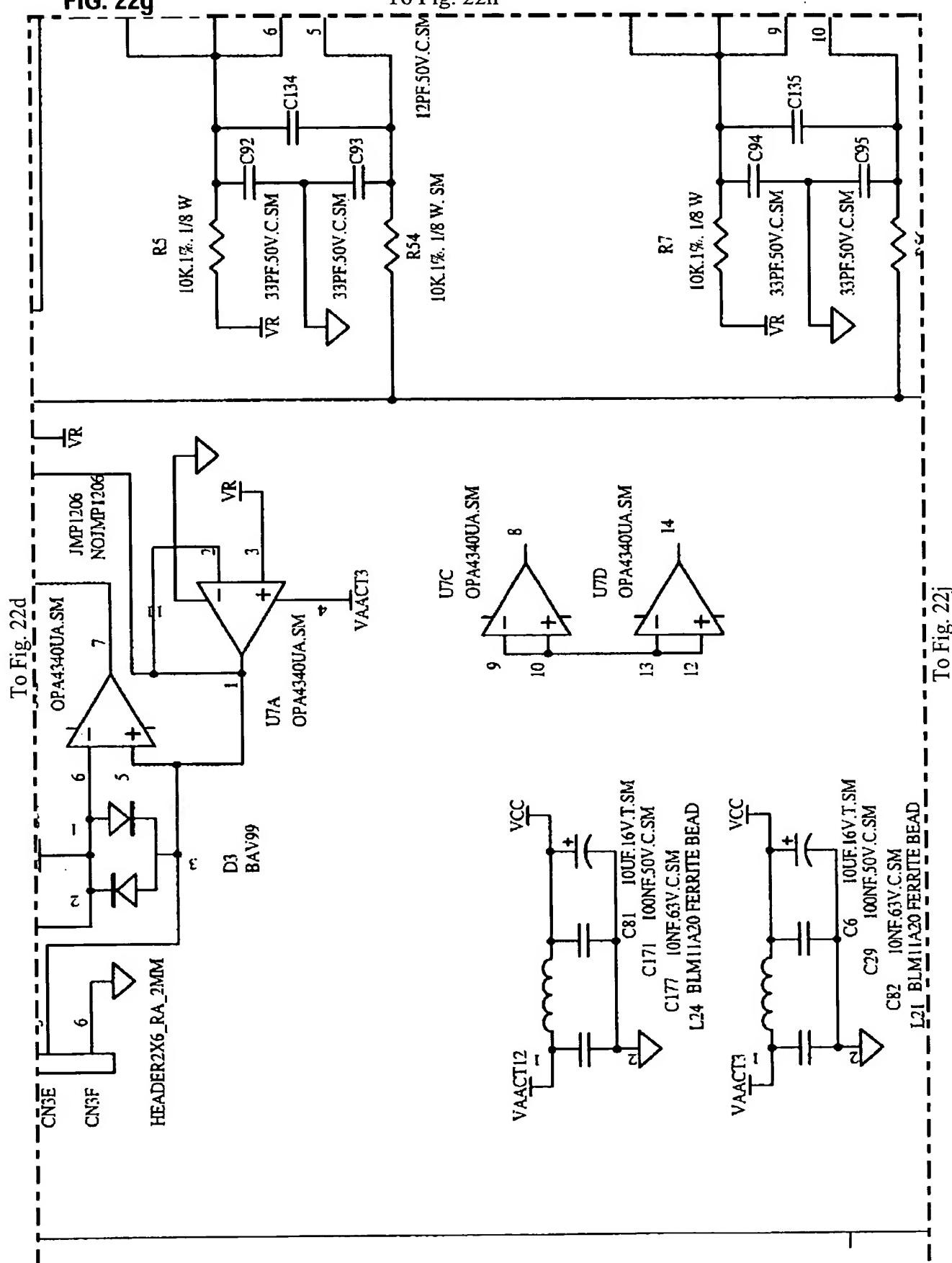
**FIG. 22d**





**FIG. 22f**

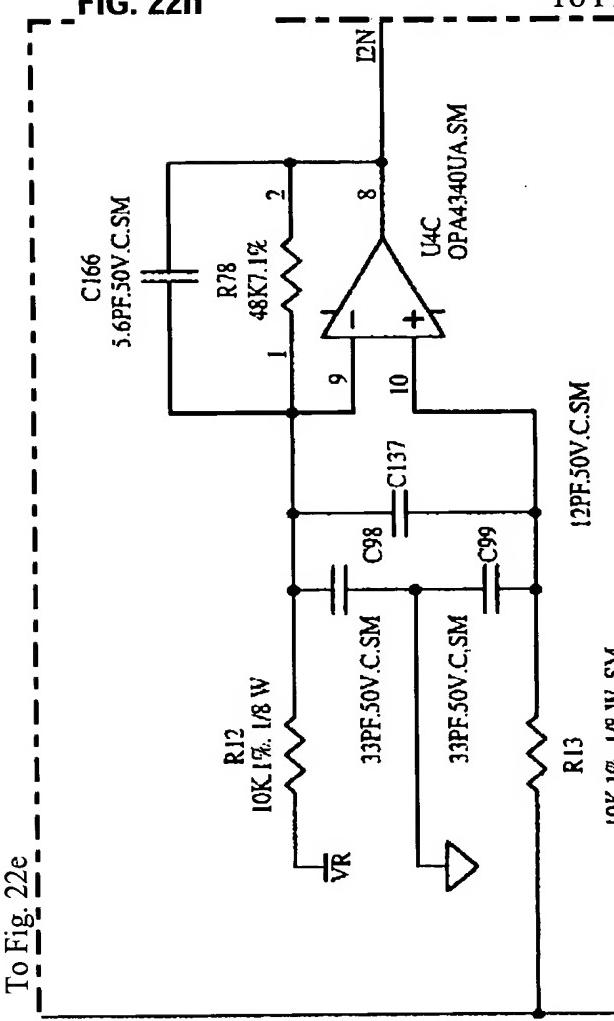
**FIG. 22g**



Inventor(s): David W. Giles et al

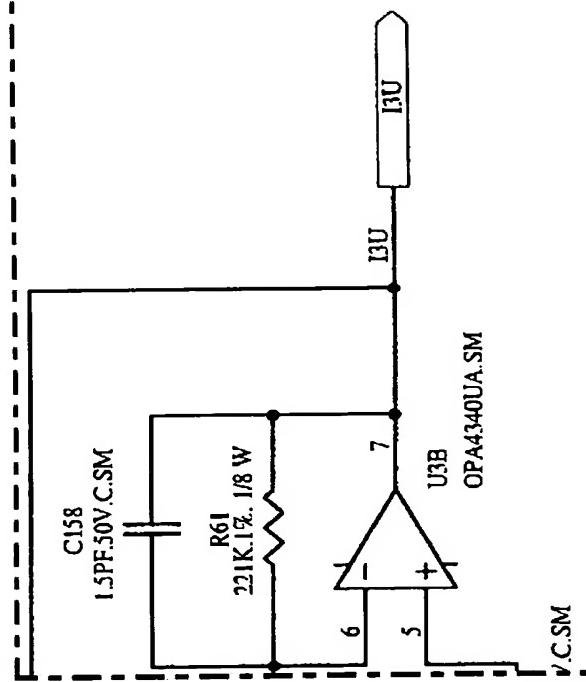
Attorney Docket No.: OUR CASE NO. 6270/125

FIG. 22h



To Fig. 22g

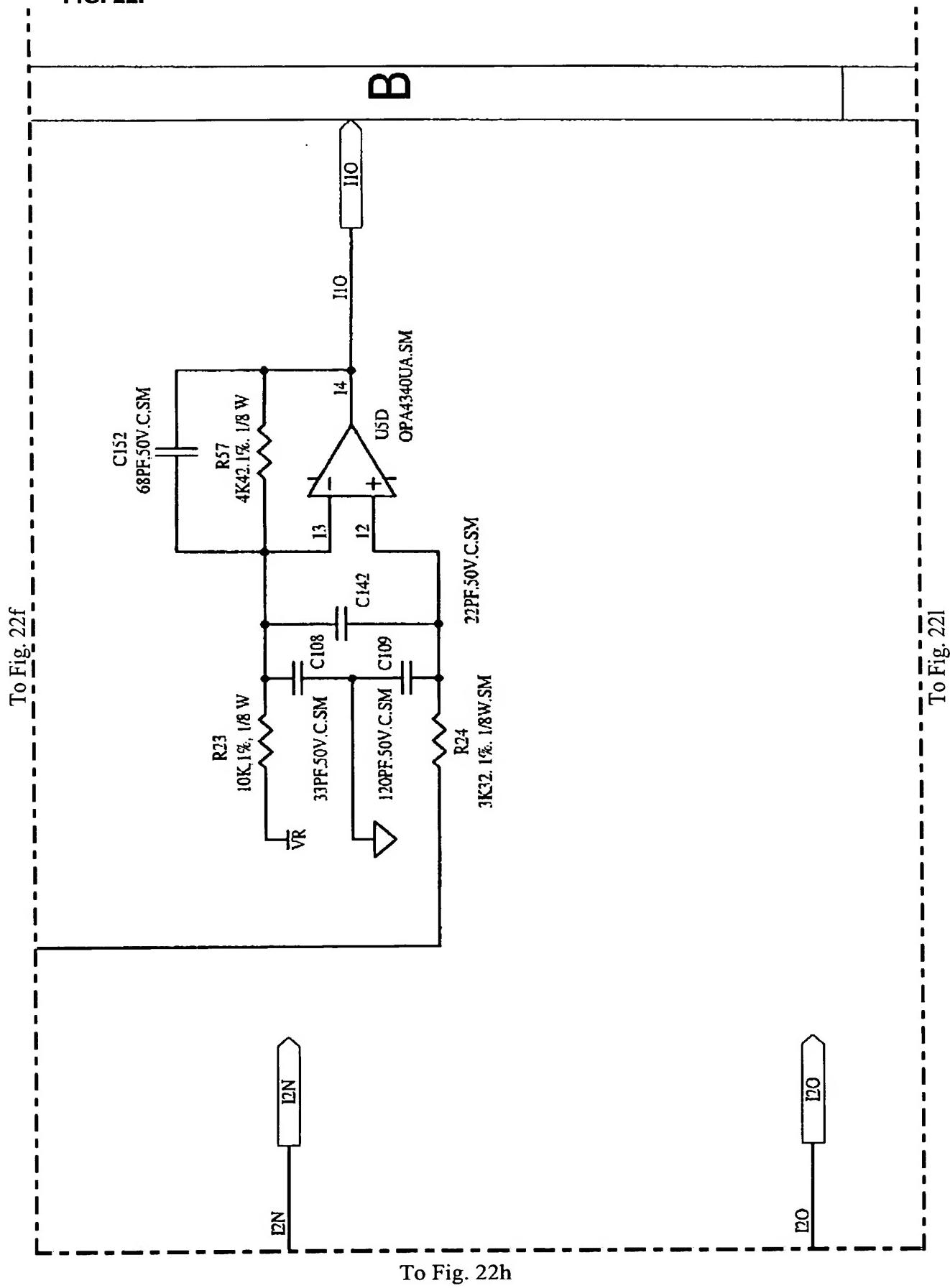
11



The circuit diagram illustrates a feedback control system. The input signal is connected to the non-inverting input (pin 14) of the OPA4340UA.SM operational amplifier (UAD). The inverting input (pin 13) is connected to ground through a 10K resistor (R21) and a 33PF capacitor (C106). The output of the UAD is connected to the inductor L1 (120mH) through a 120PF capacitor (C107). The voltage across the inductor L1 is fed back through a 10K resistor (R21) and a 33PF capacitor (C106) to the inverting input. A 68PF 50V.C.SM capacitor (C150) is connected between the inverting input and ground. The output of the UAD is also connected to a 4K42.1% 1/8 W resistor (R55), which is connected to ground. The output of the UAD is also connected to pin 12, which is connected to ground through a 120PF capacitor (C141).

To Fig. 22k

FIG. 22i



**FIG. 22j**

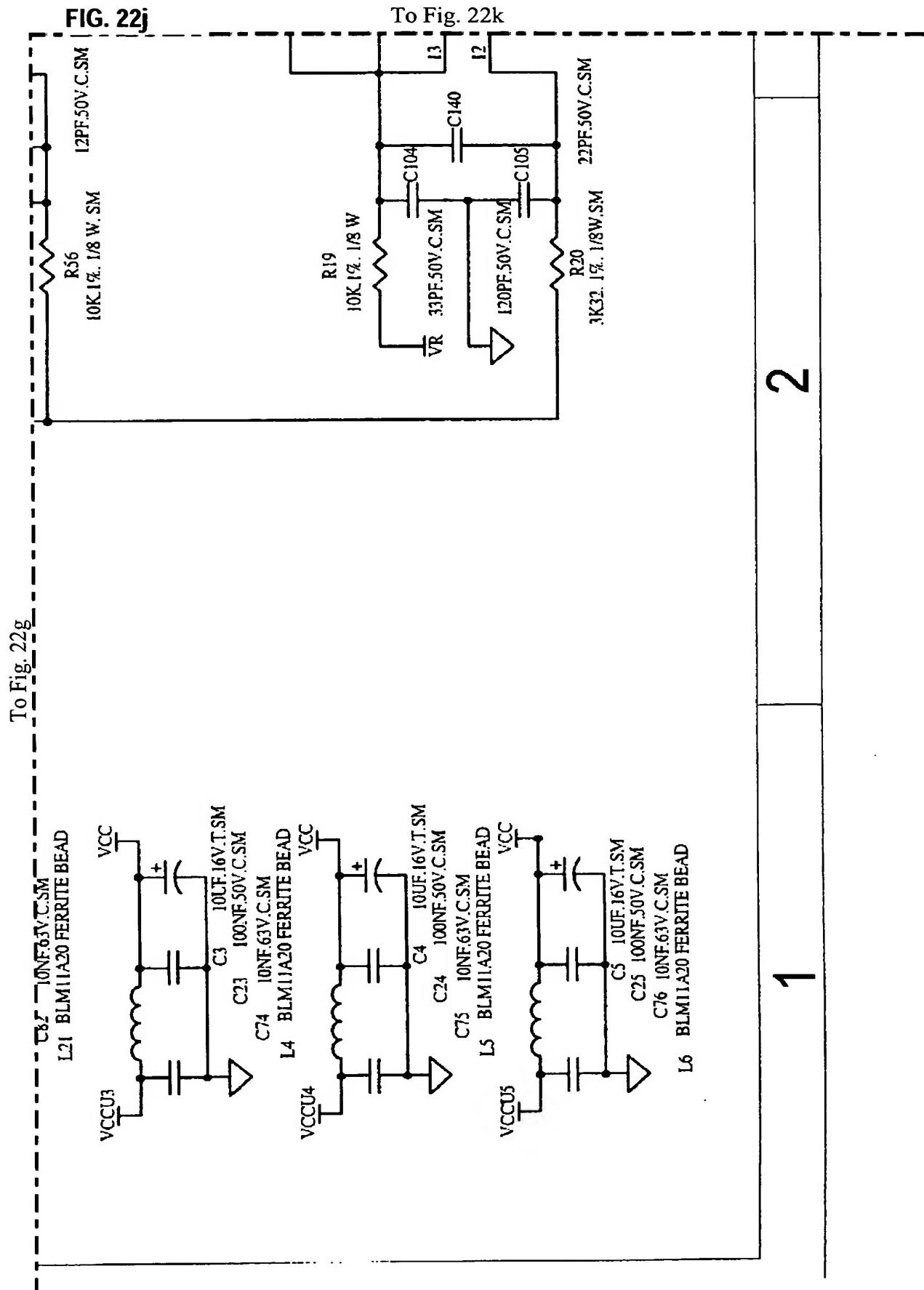
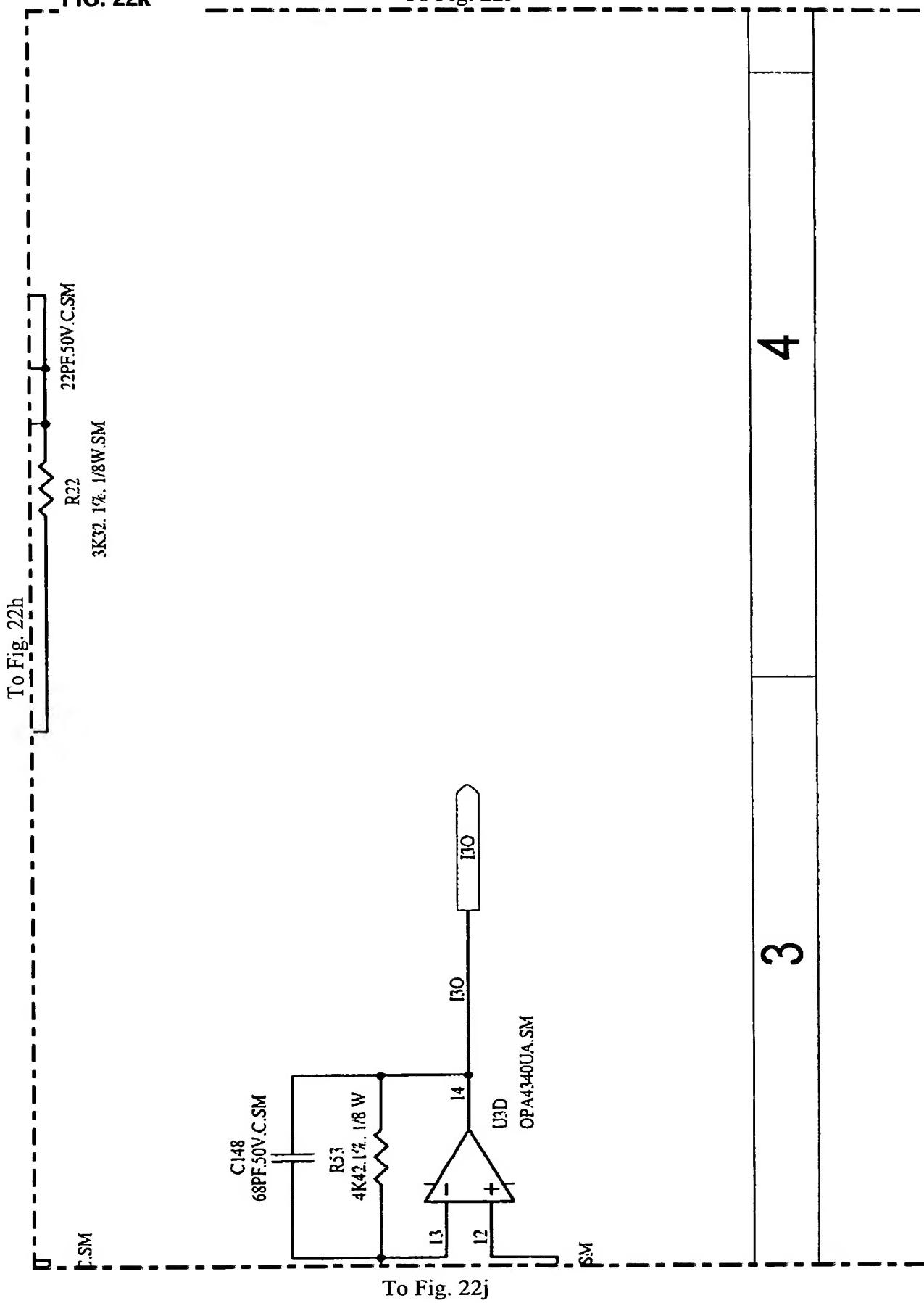


FIG. 22k

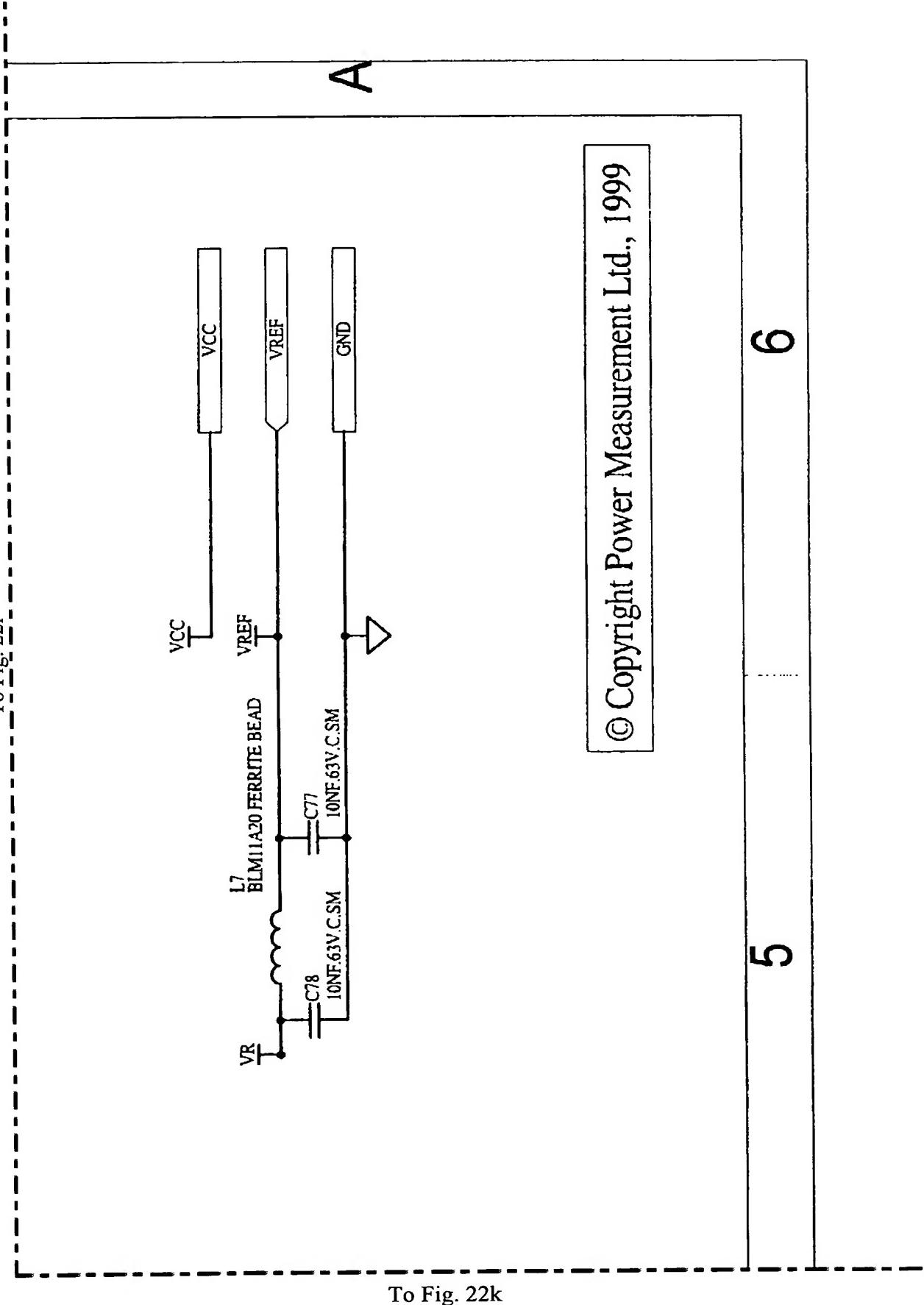
To Fig. 22l



To Fig. 22j

FIG. 22I

To Fig. 22i



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 23a**

To Fig. 23b

2

1

To Fig. 23d

**FIG. 23b**

To Fig. 23c

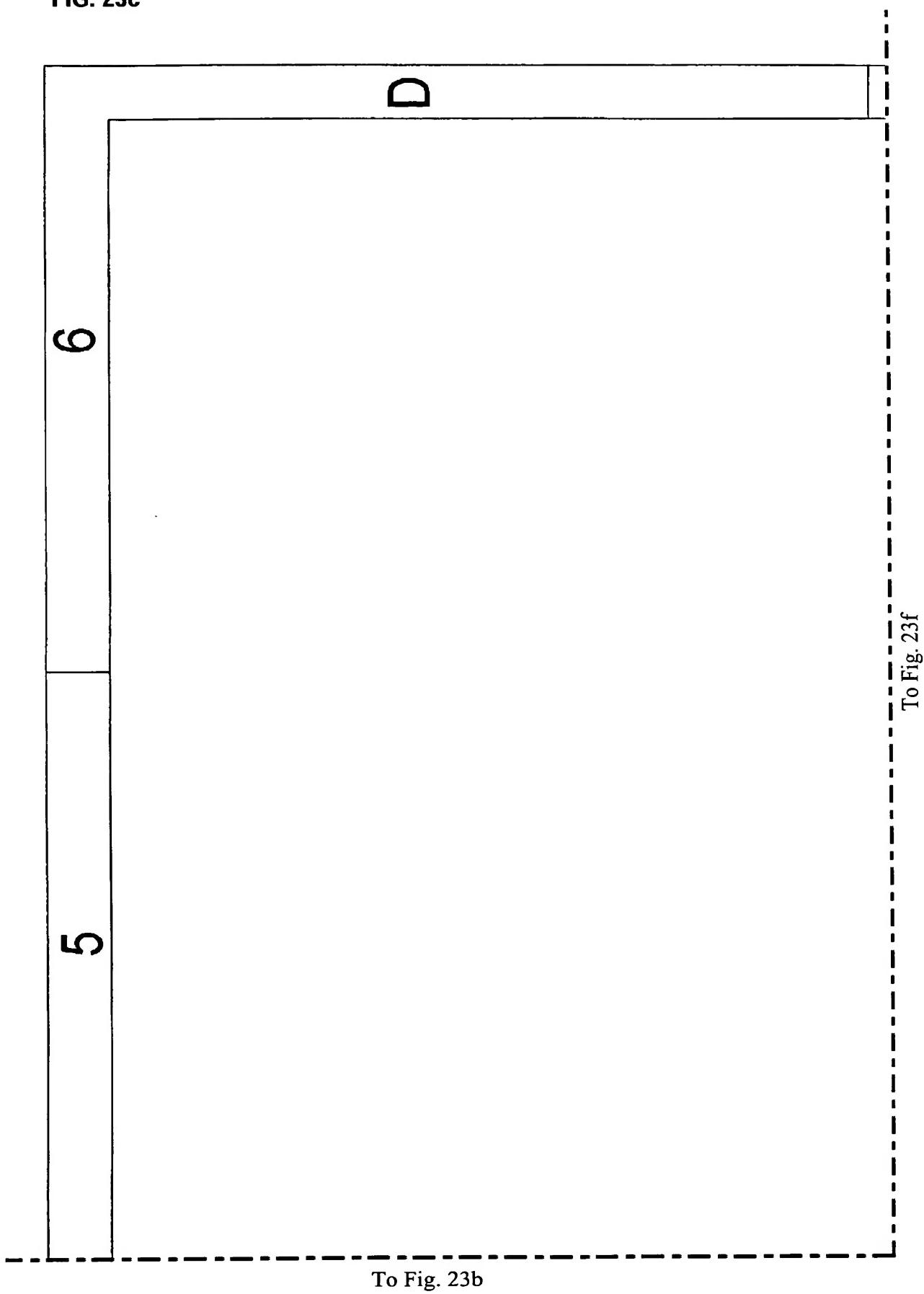
4

3

To Fig. 23a

To Fig. 23e

**FIG. 23c**



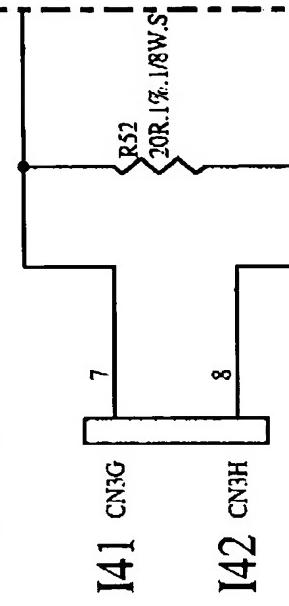
**FIG. 23d**

To Fig. 23e

To Fig. 23a

HEADER, 2PIN T.B.D.

I4 (NEUTRAL CURRENT)



HEADER2X6\_RA\_2MM

To Fig. 23g

FIG. 23e

To Fig. 23f

AUXILIARY CURRENT INPUTS (0-50A)

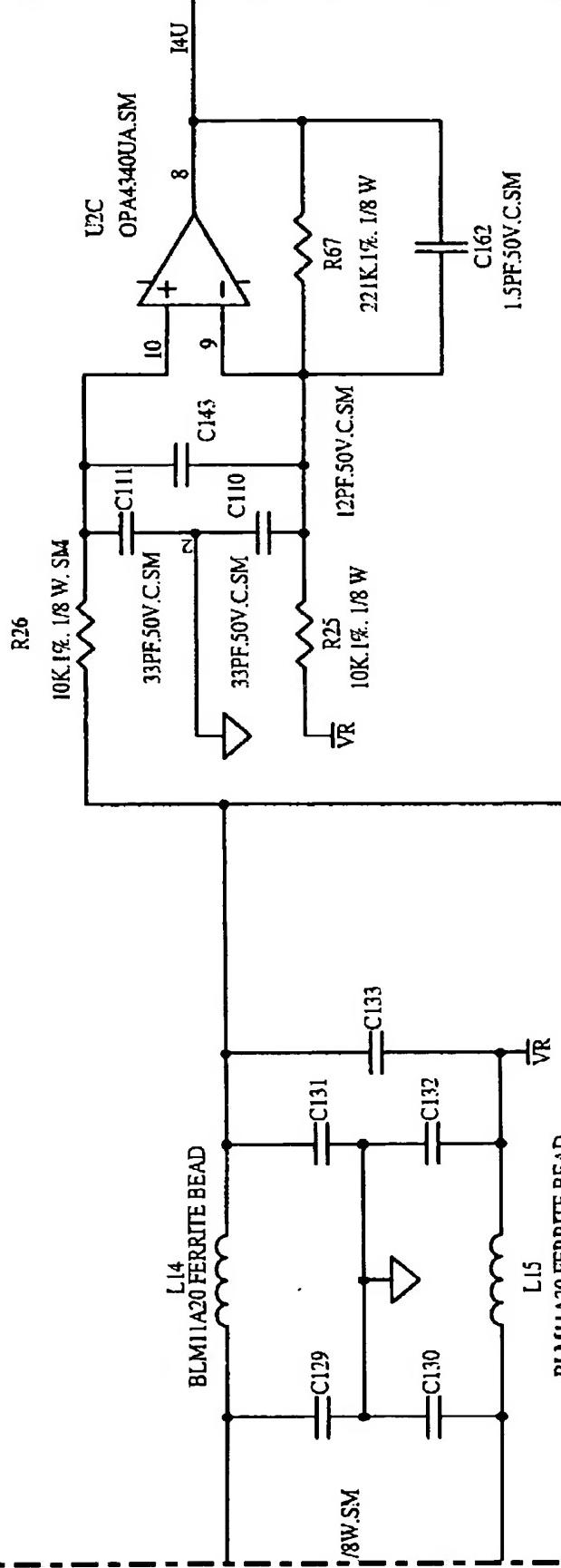
To Fig. 23b

To Fig. 23d

R28

To Fig. 23h

18PF.50V.C.SM  
1.5PF.50V.C.SM

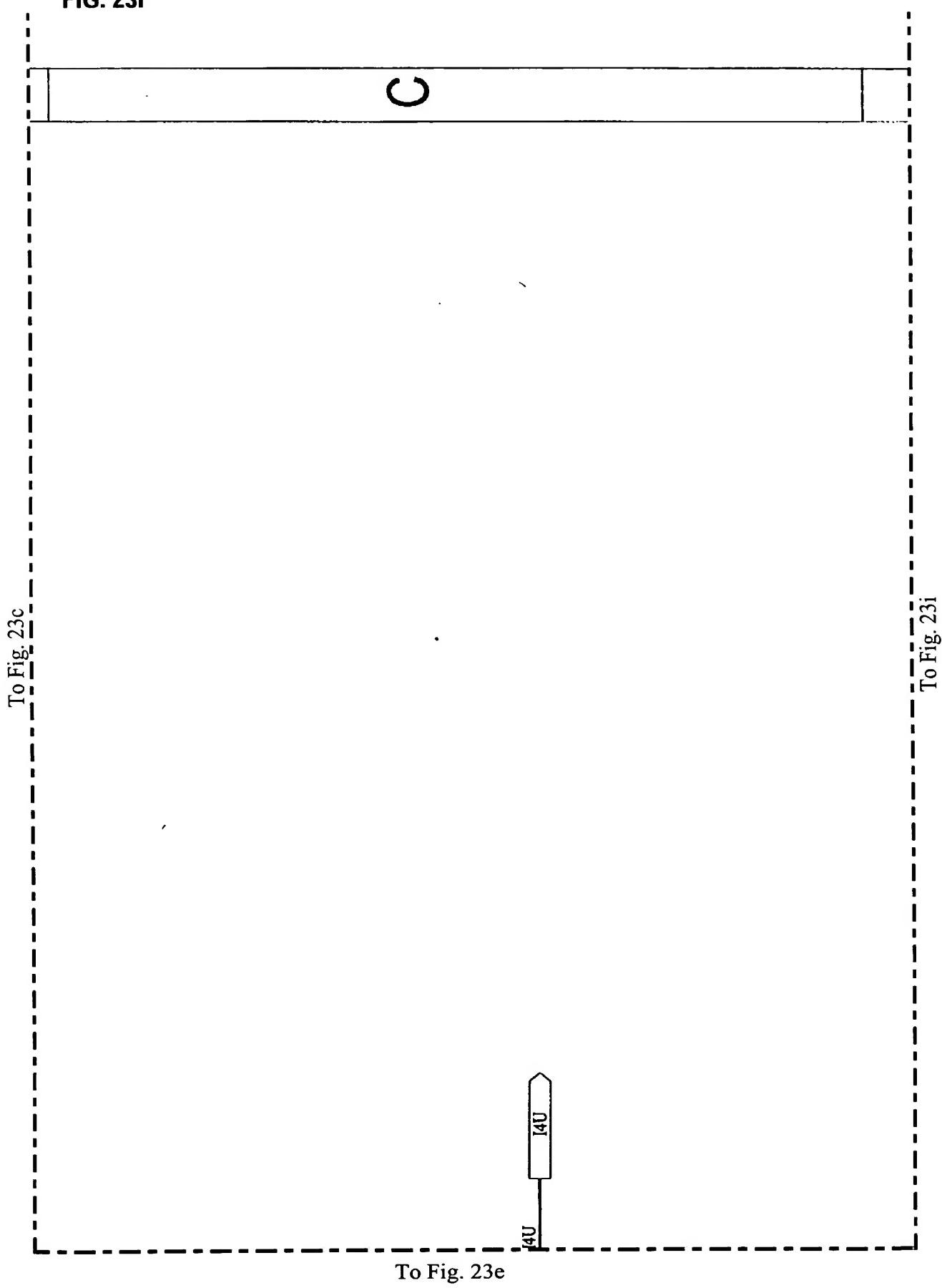


Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 23f**



To Fig. 23e

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

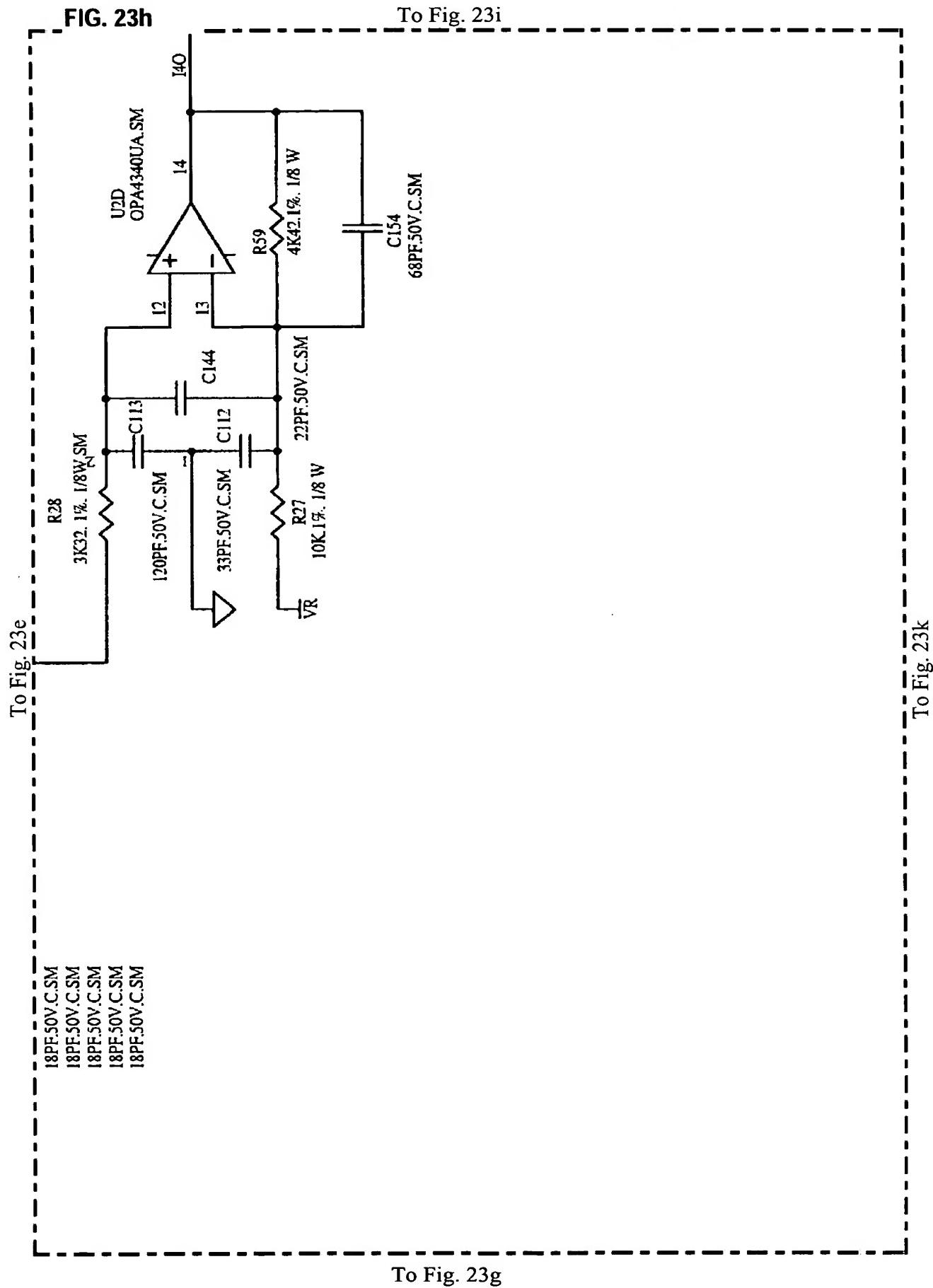
Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 23g**

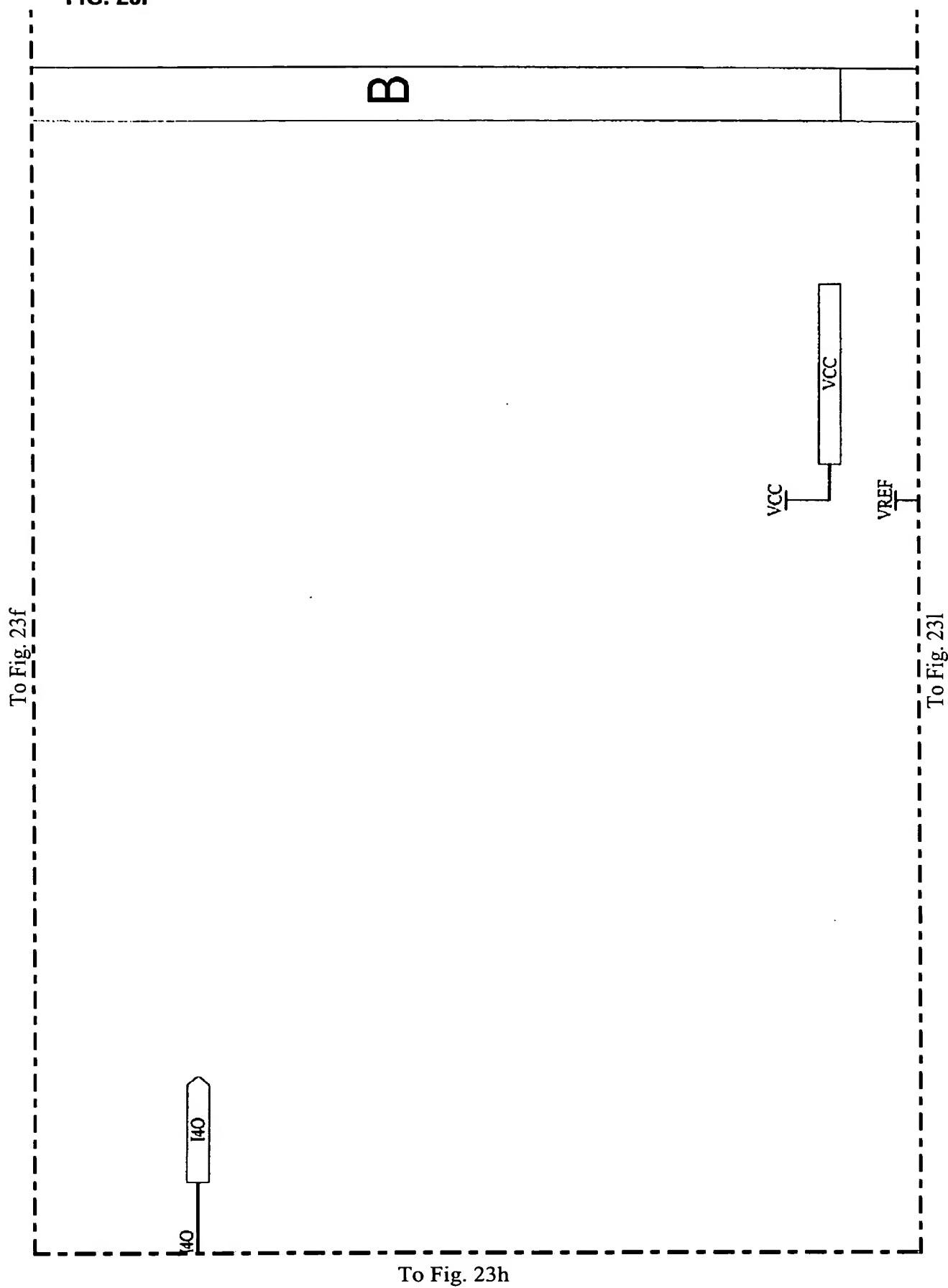
To Fig. 23h

To Fig. 23d

To Fig. 23j



**FIG. 23i**



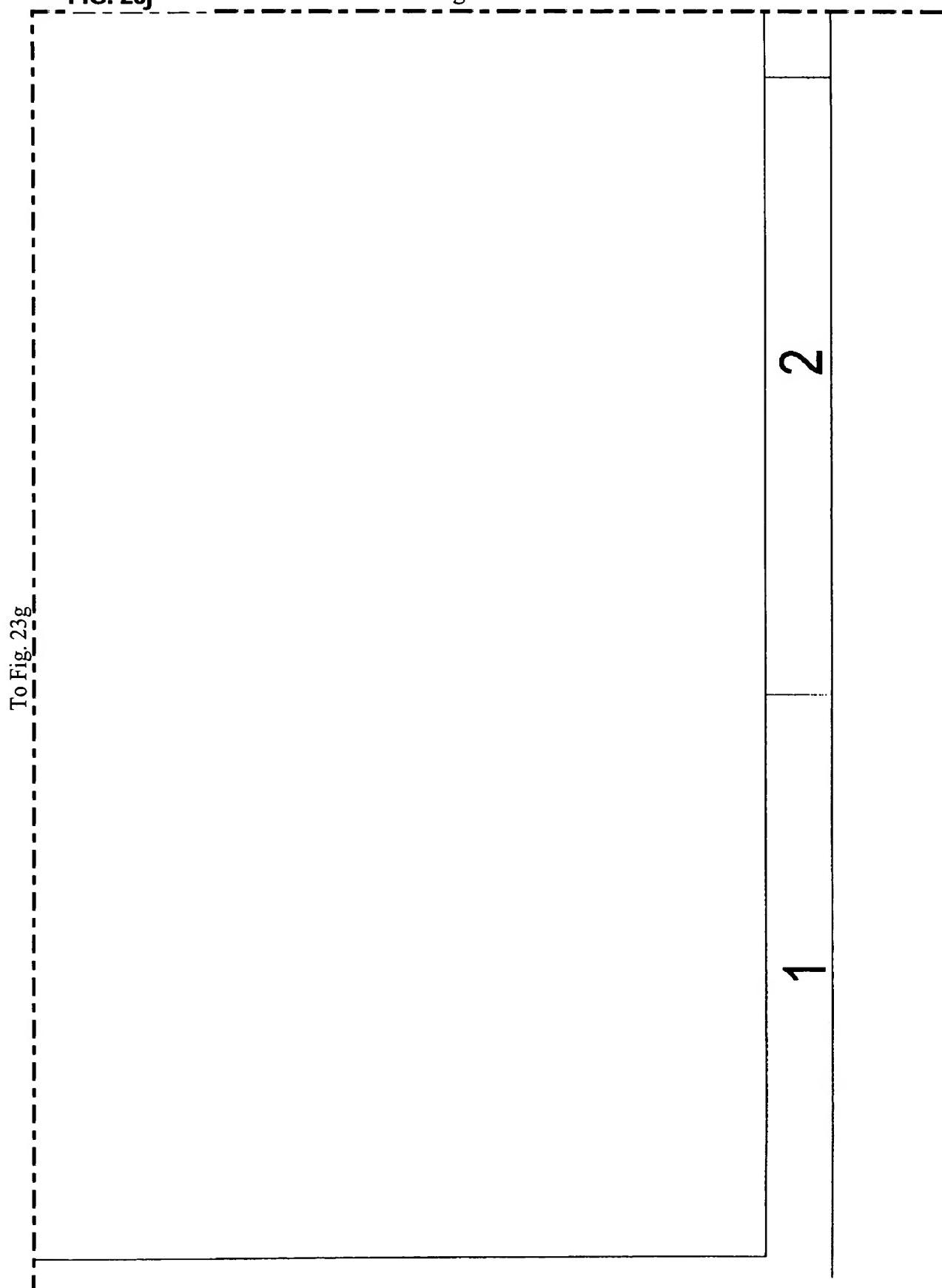
Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 23j**

To Fig. 23k



**FIG. 23k**

To Fig. 23l

To Fig. 23h

**4**

**3**

To Fig. 23j

FIG. 23I

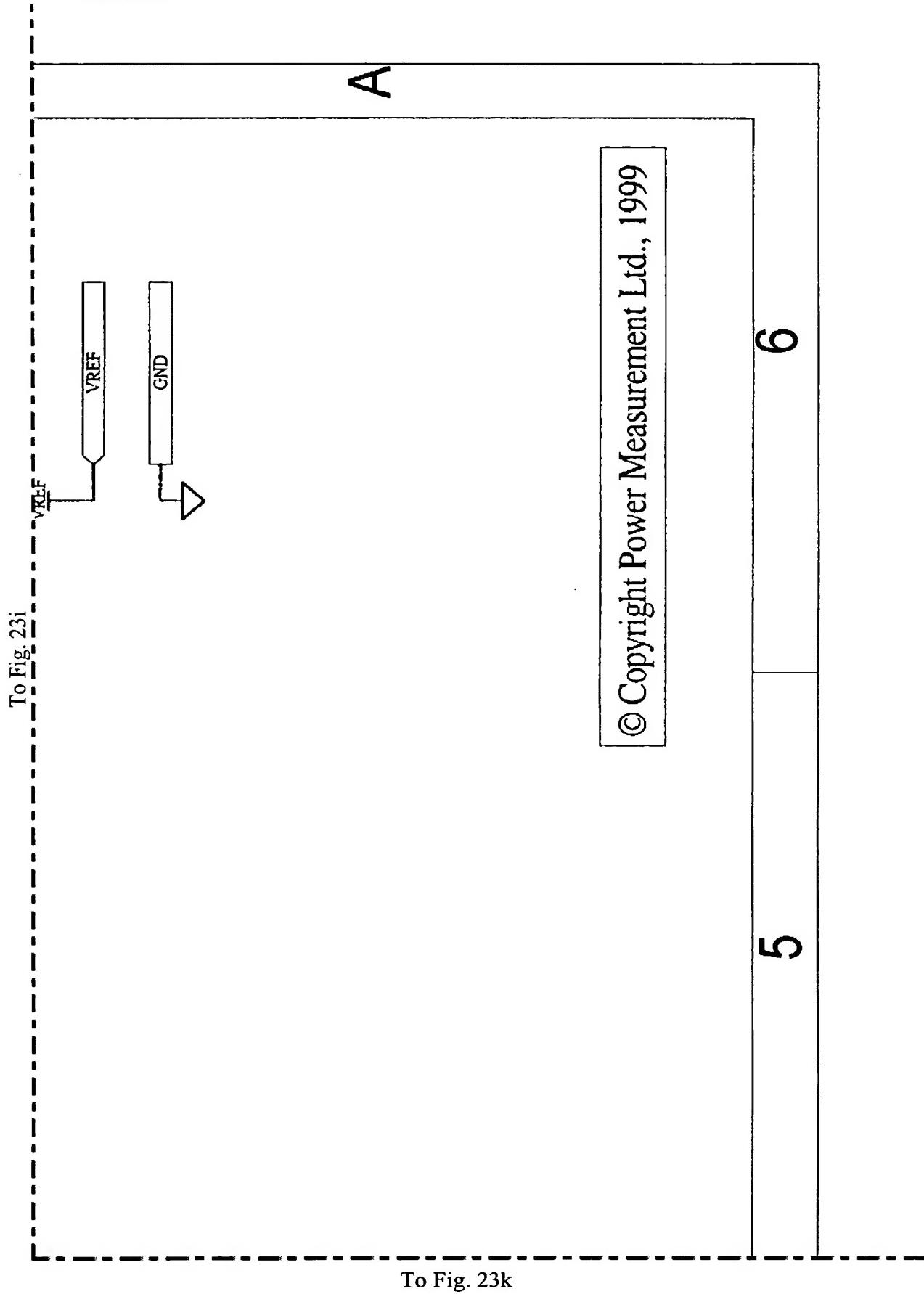
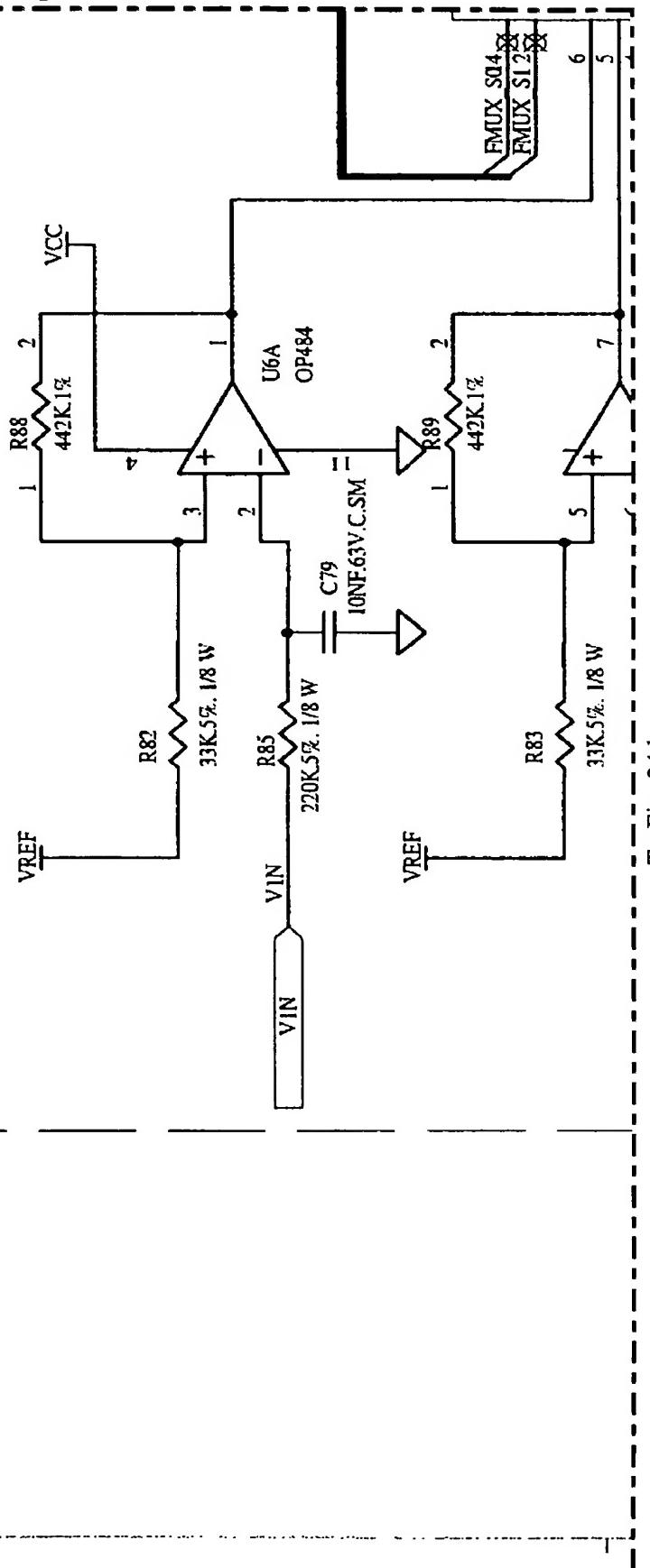


FIG. 24a

To Fig. 24b

LINE FREQUENCY DETECTOR



1

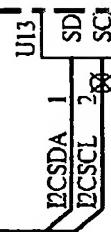
2

To Fig. 24d

FIG. 24b

To Fig. 24c

TEMPER



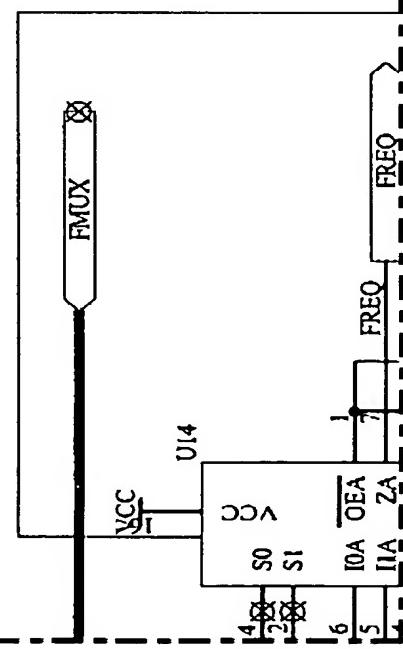
4

3

To Fig. 24a

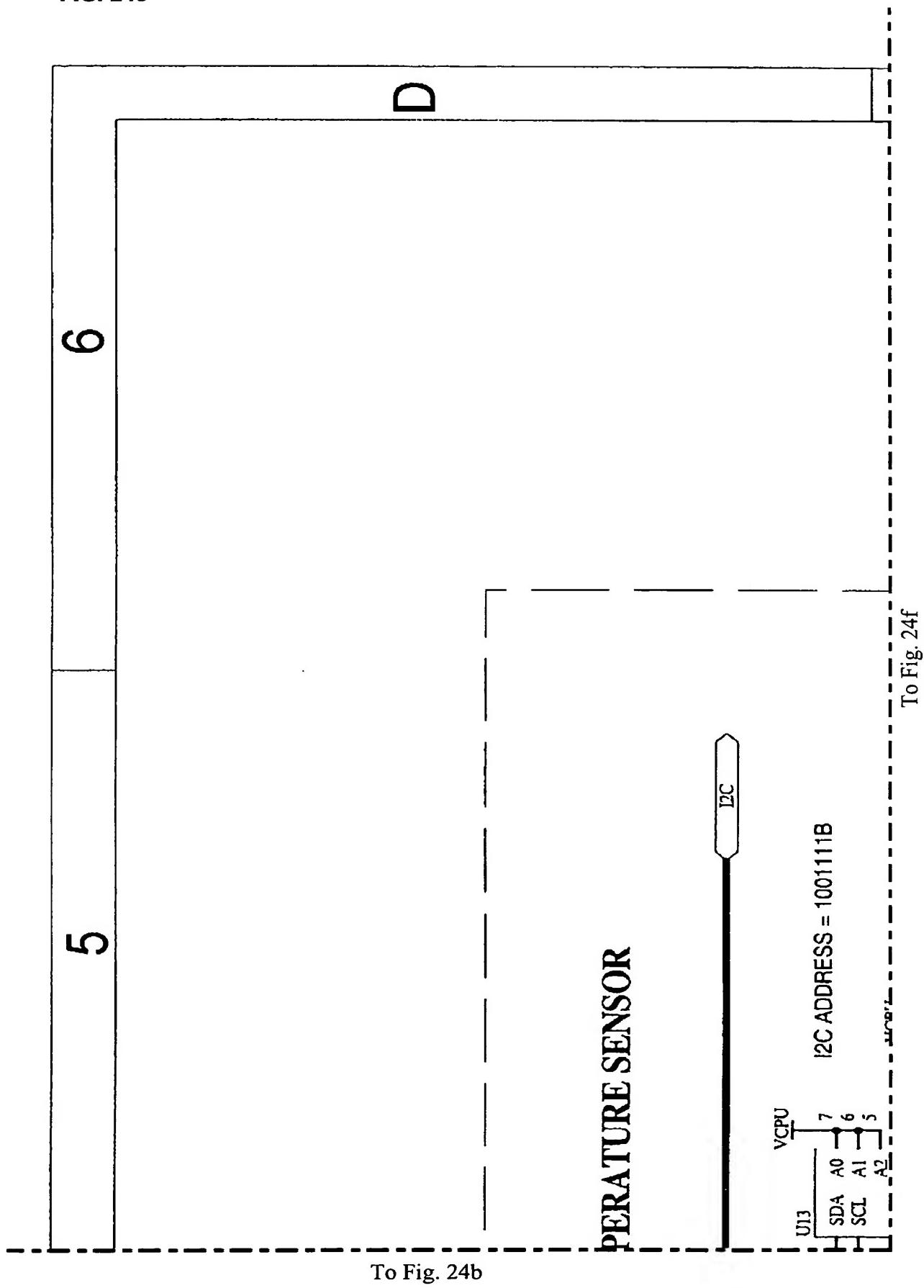
To Fig. 24c

FMUX



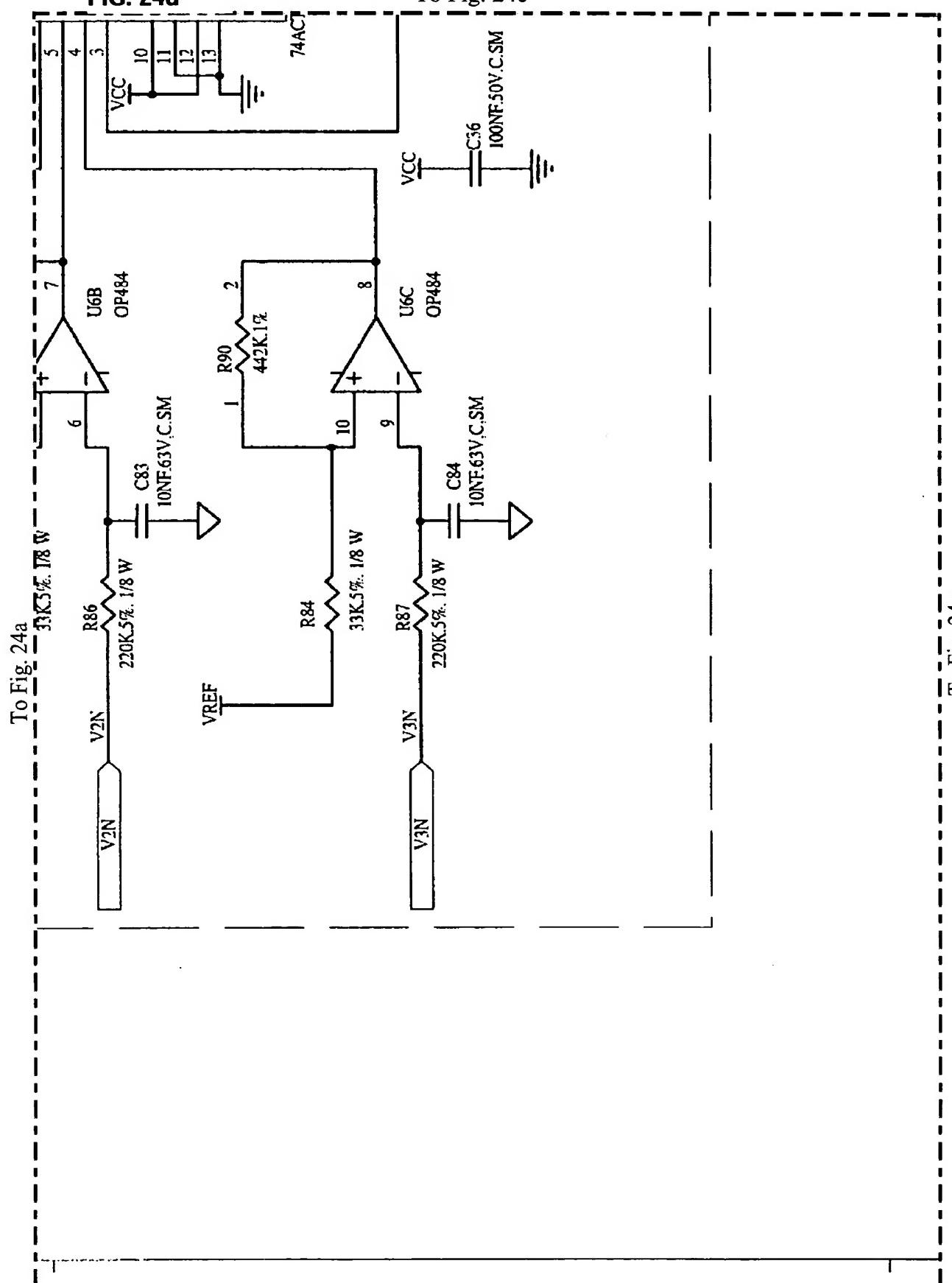
To Fig. 24e

**FIG. 24c**

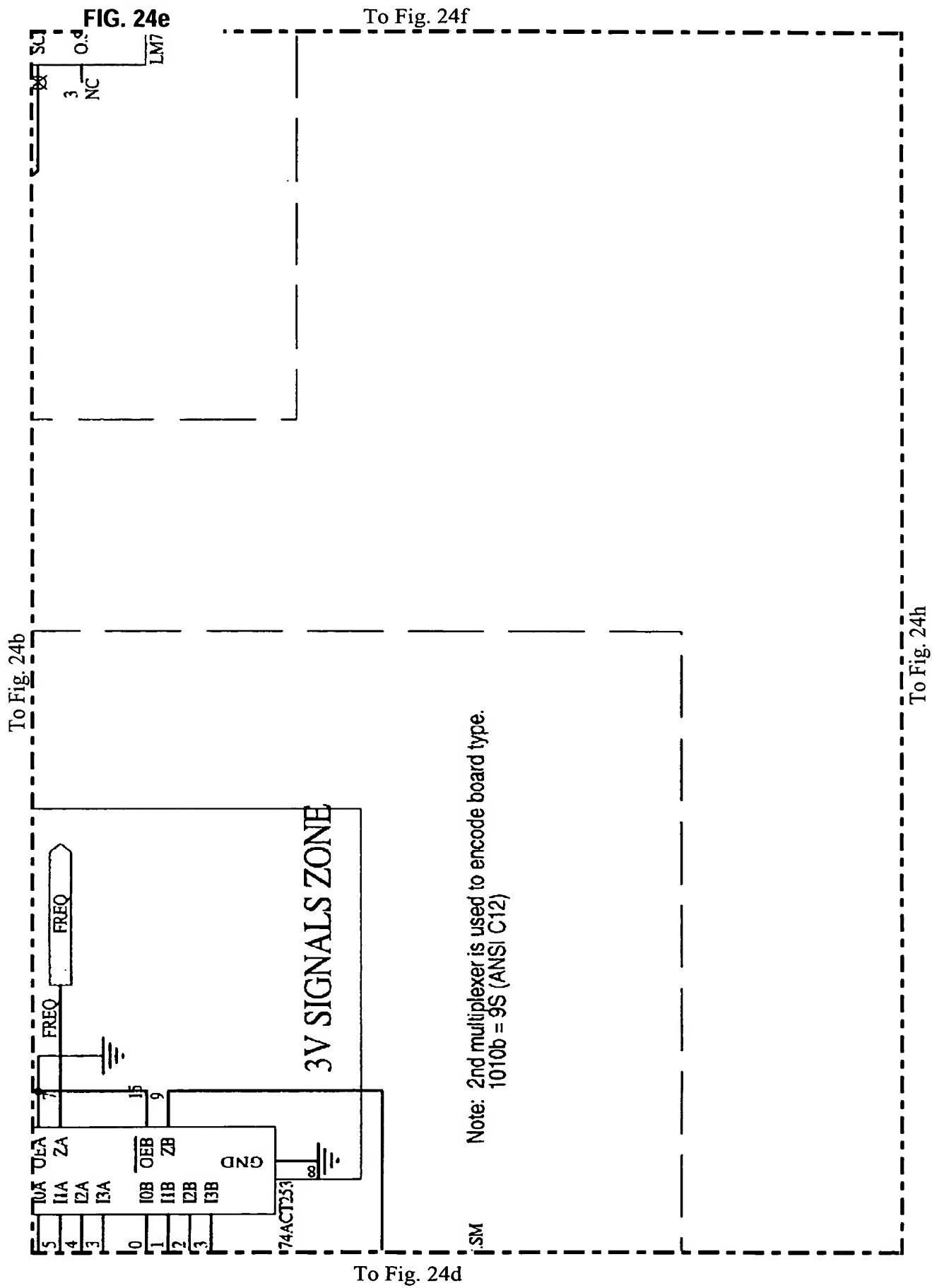


**FIG. 24d**

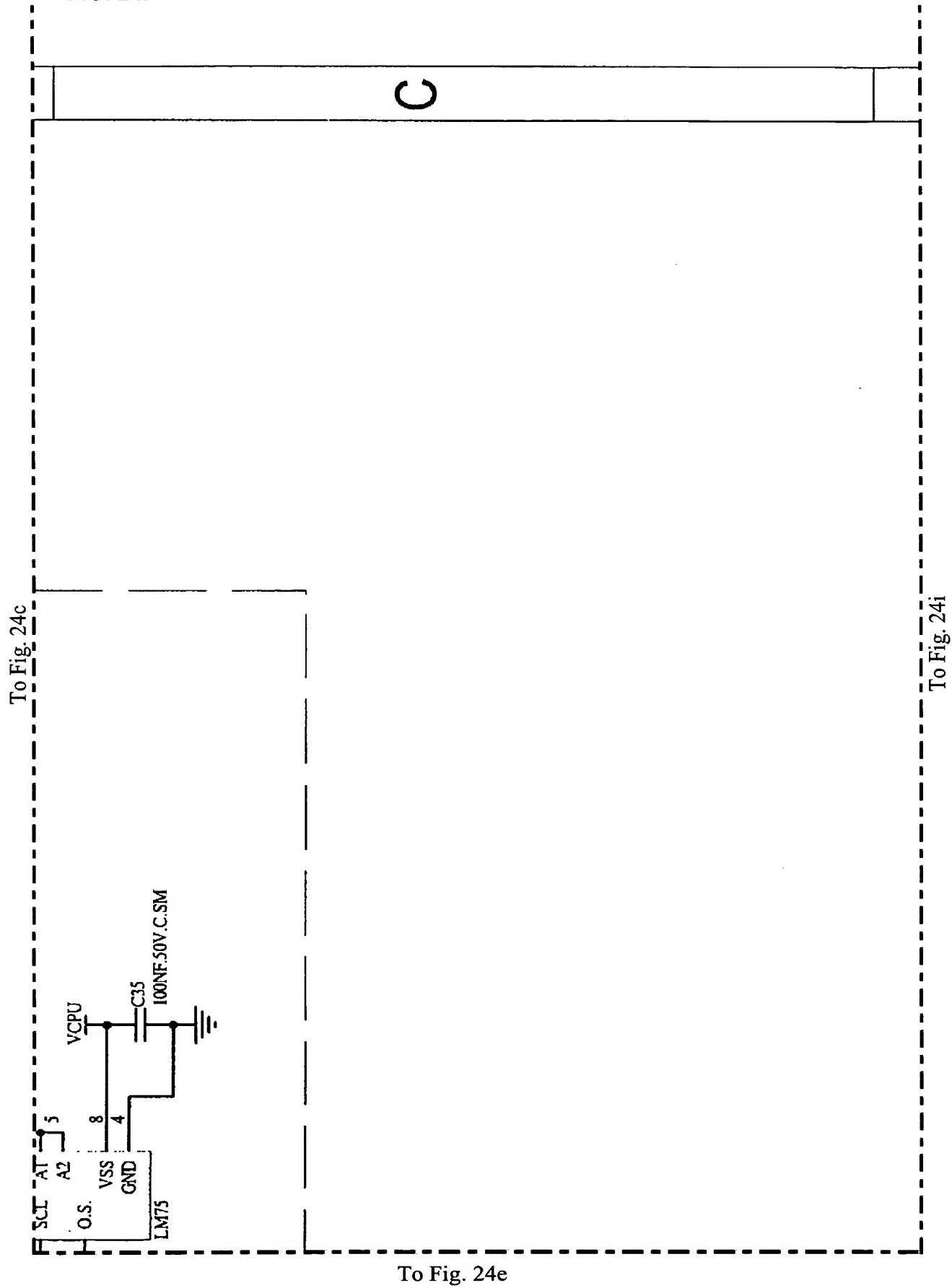
To Fig. 24e



To Fig. 24g



**FIG. 24f**

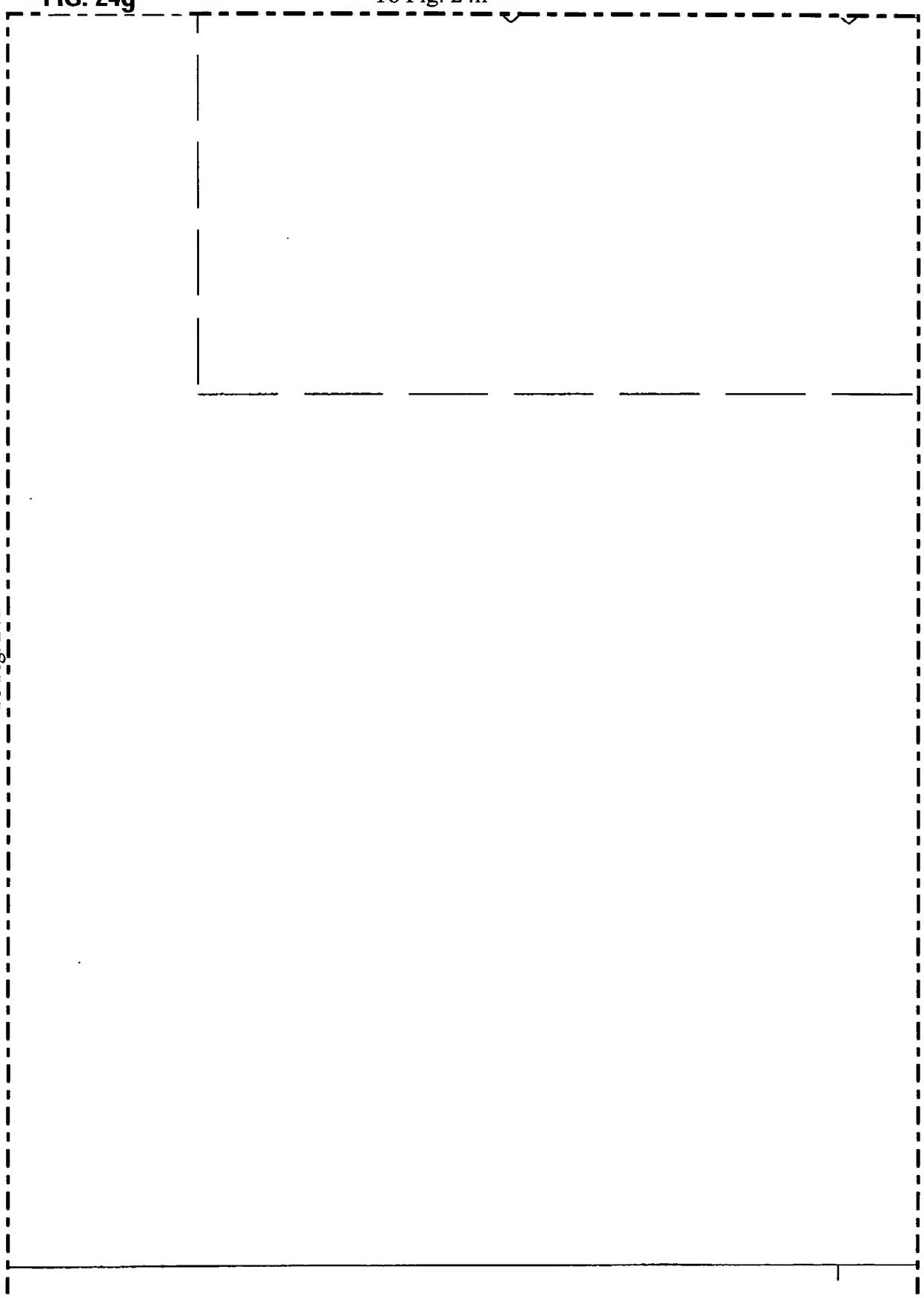


**FIG. 24g**

To Fig. 24h

To Fig. 24d

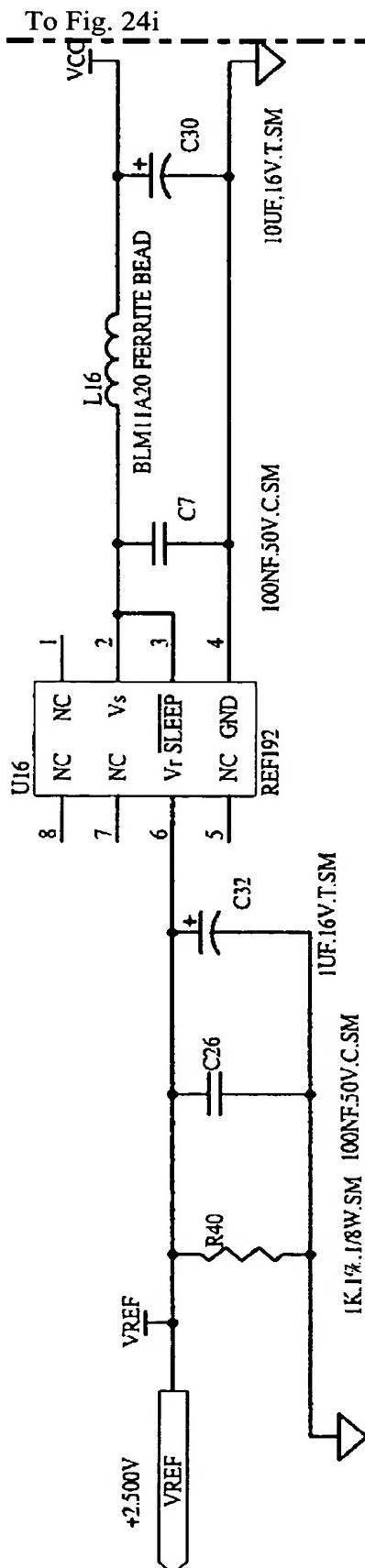
To Fig. 24j



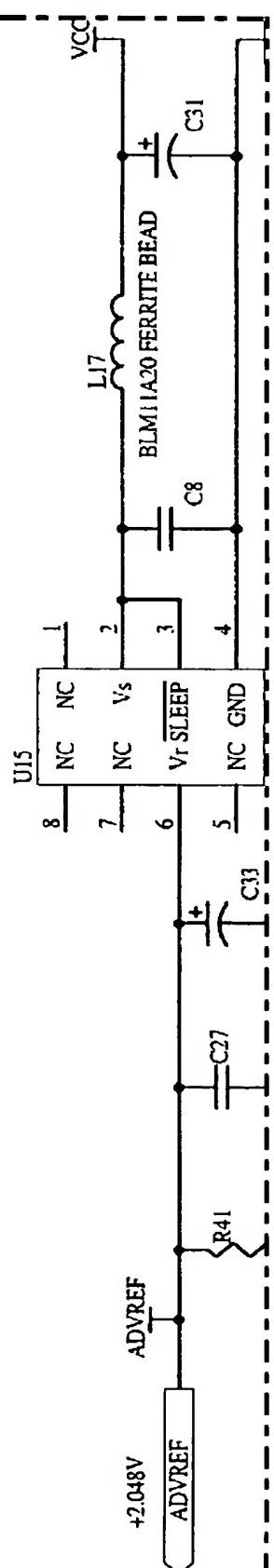
**FIG. 24h**

**REFERENCE VOLTAGE**

To Fig. 24e



To Fig. 24g



To Fig. 24k

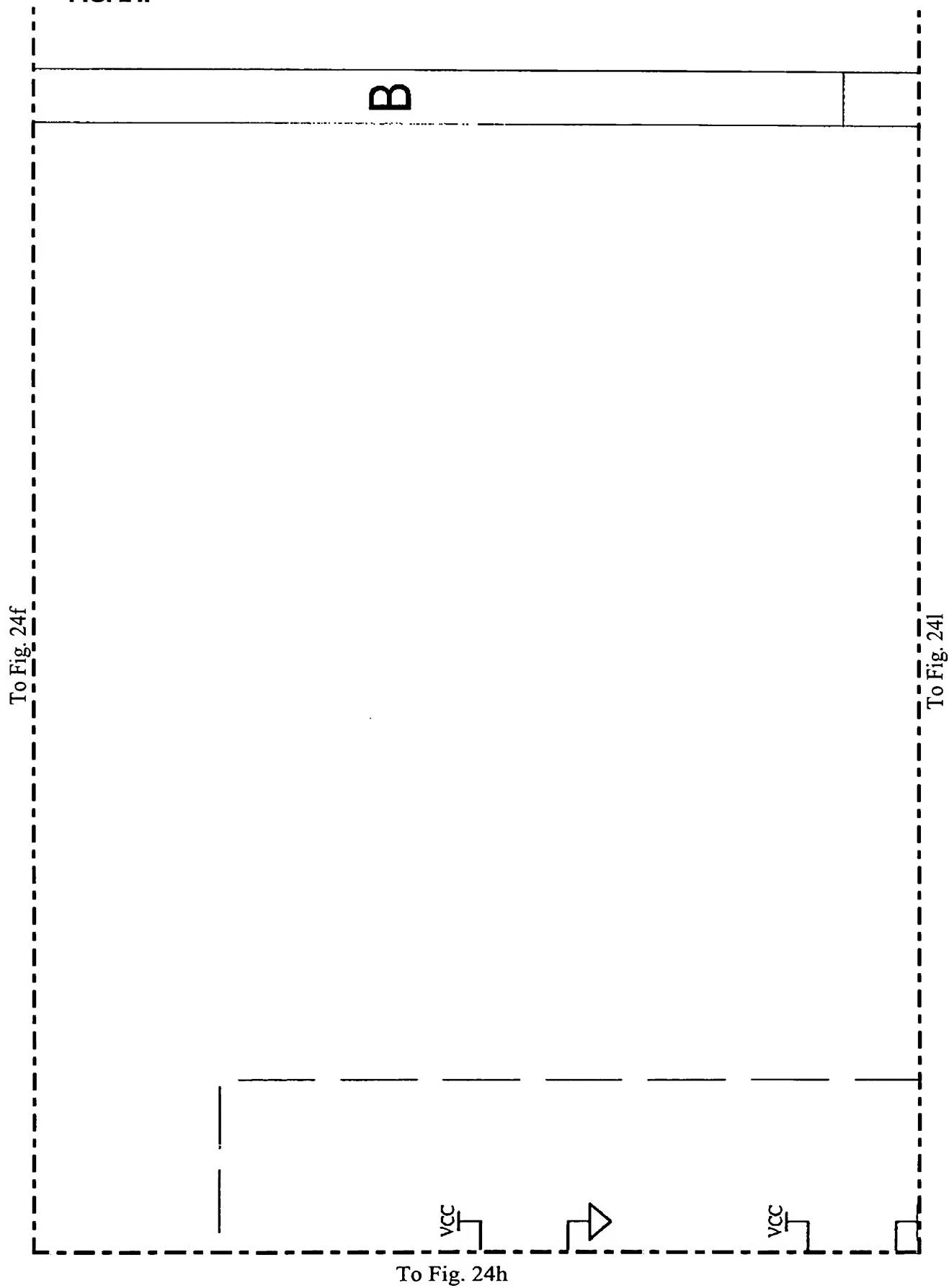
To Fig. 24i

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 24i**

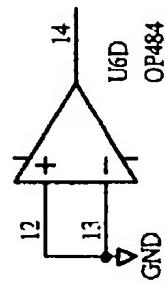


**FIG. 24j**

To Fig. 24k

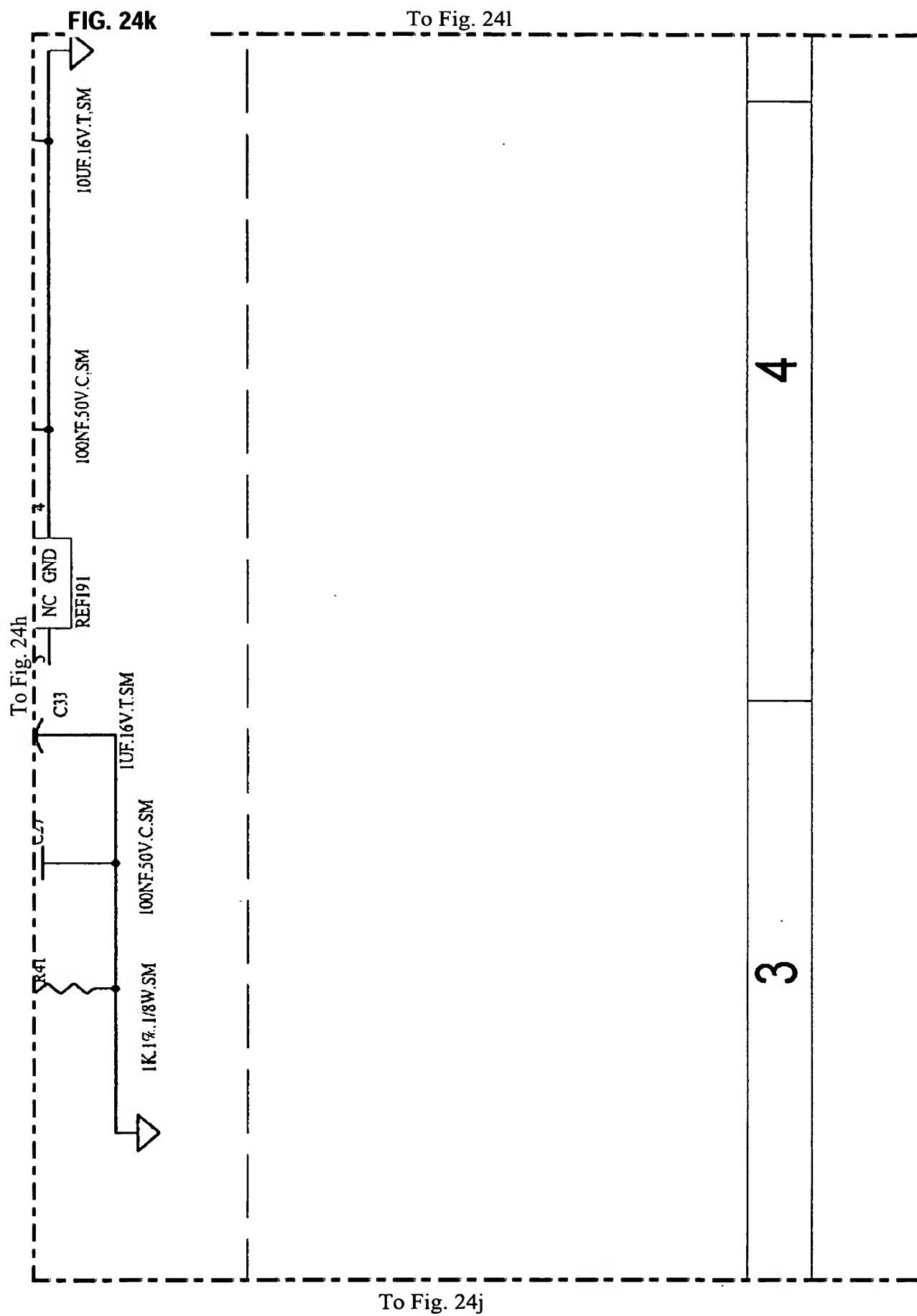
To Fig. 24g

UNUSED OP-AMP

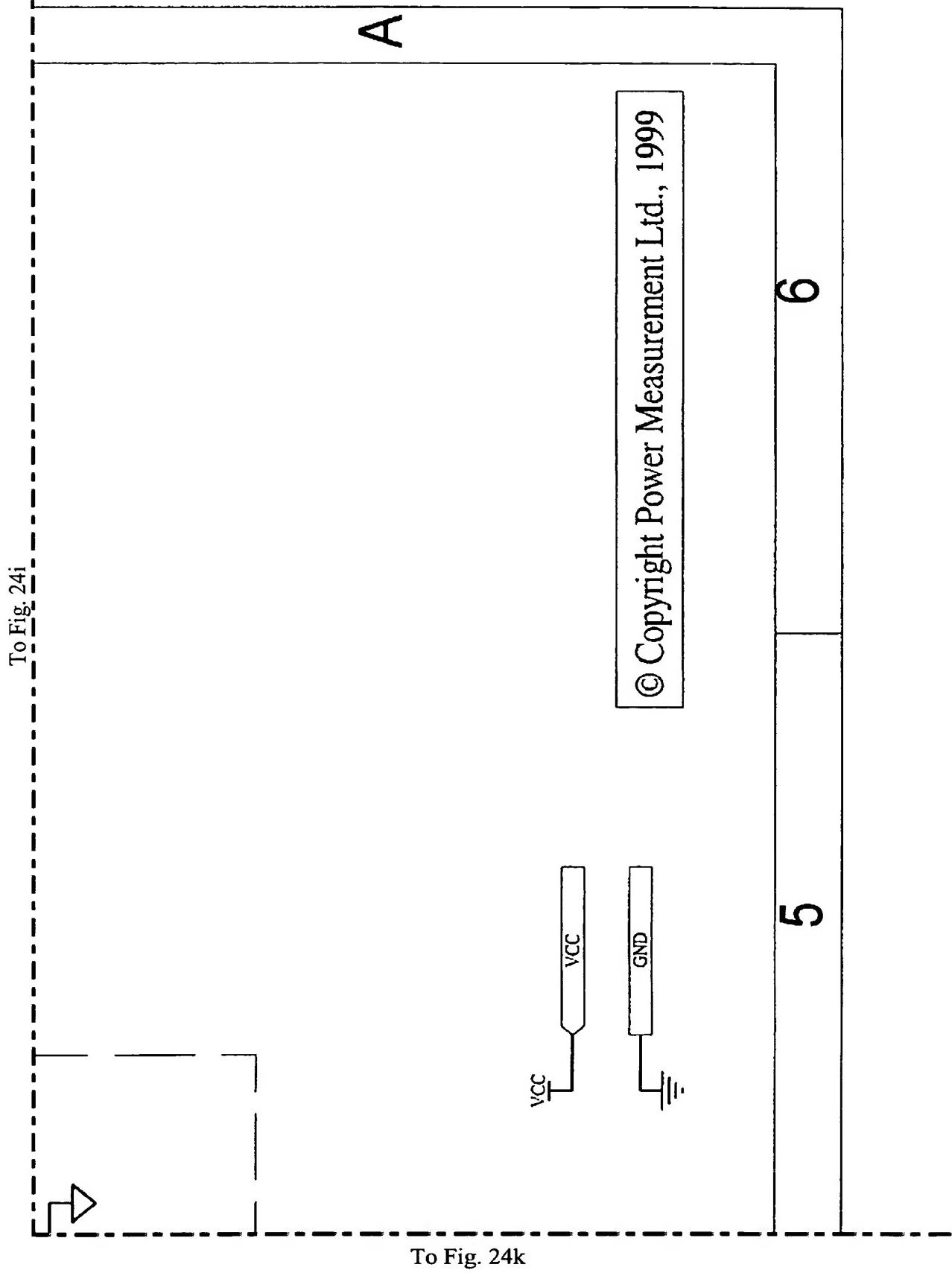


2

1



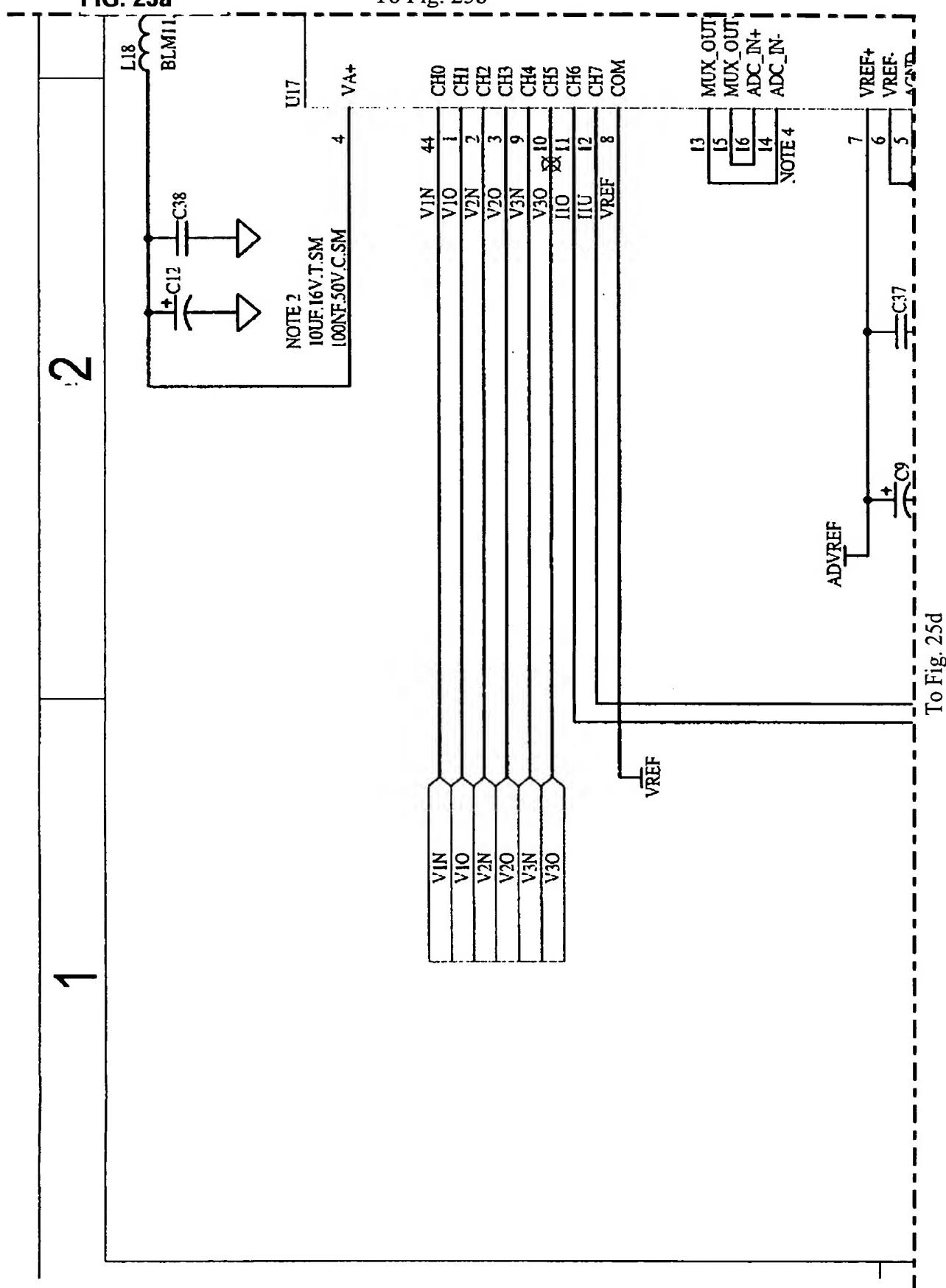
**FIG. 24I**



Inventor(s): David W. Giles et al

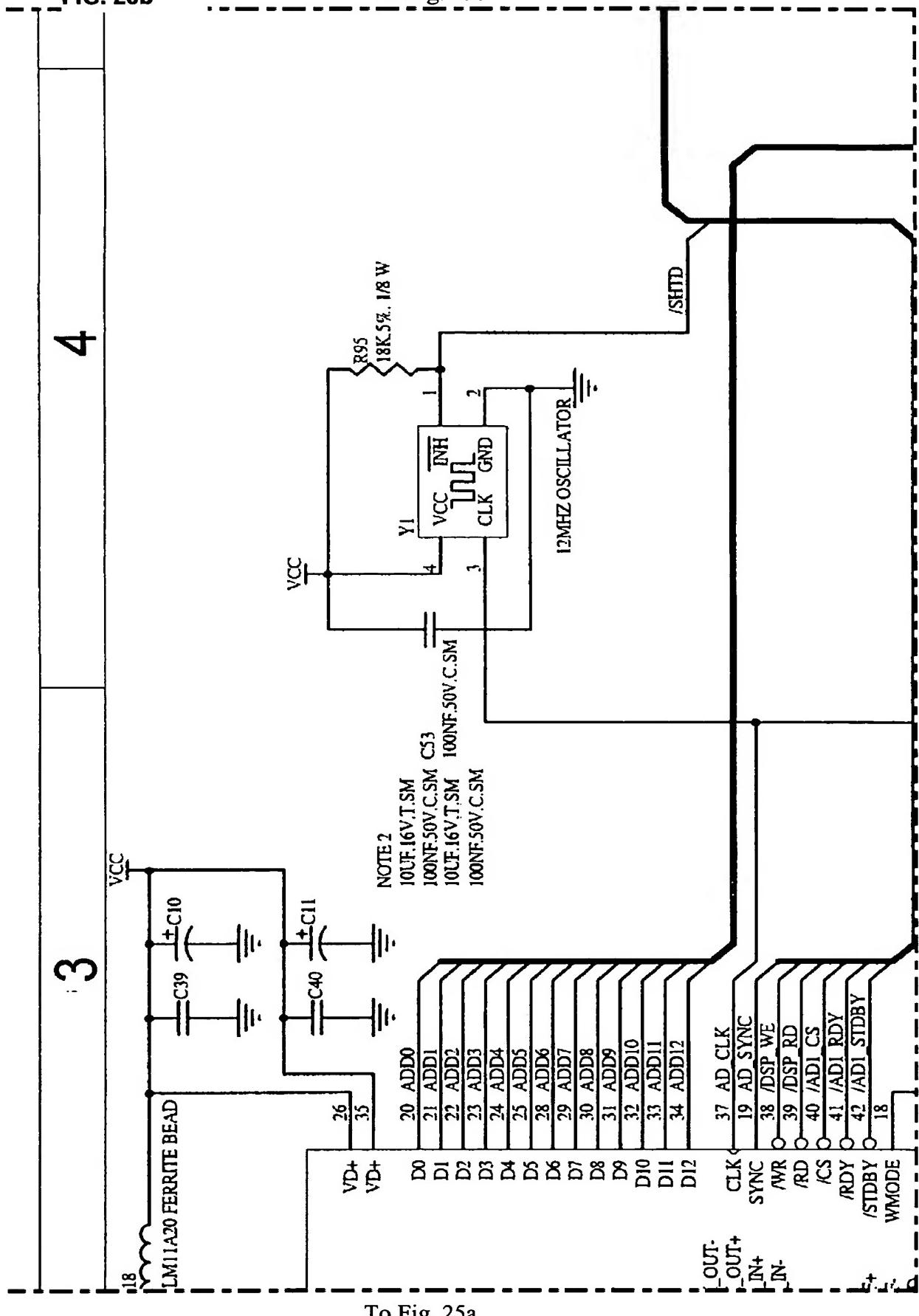
Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 25a**



**FIG. 25b**

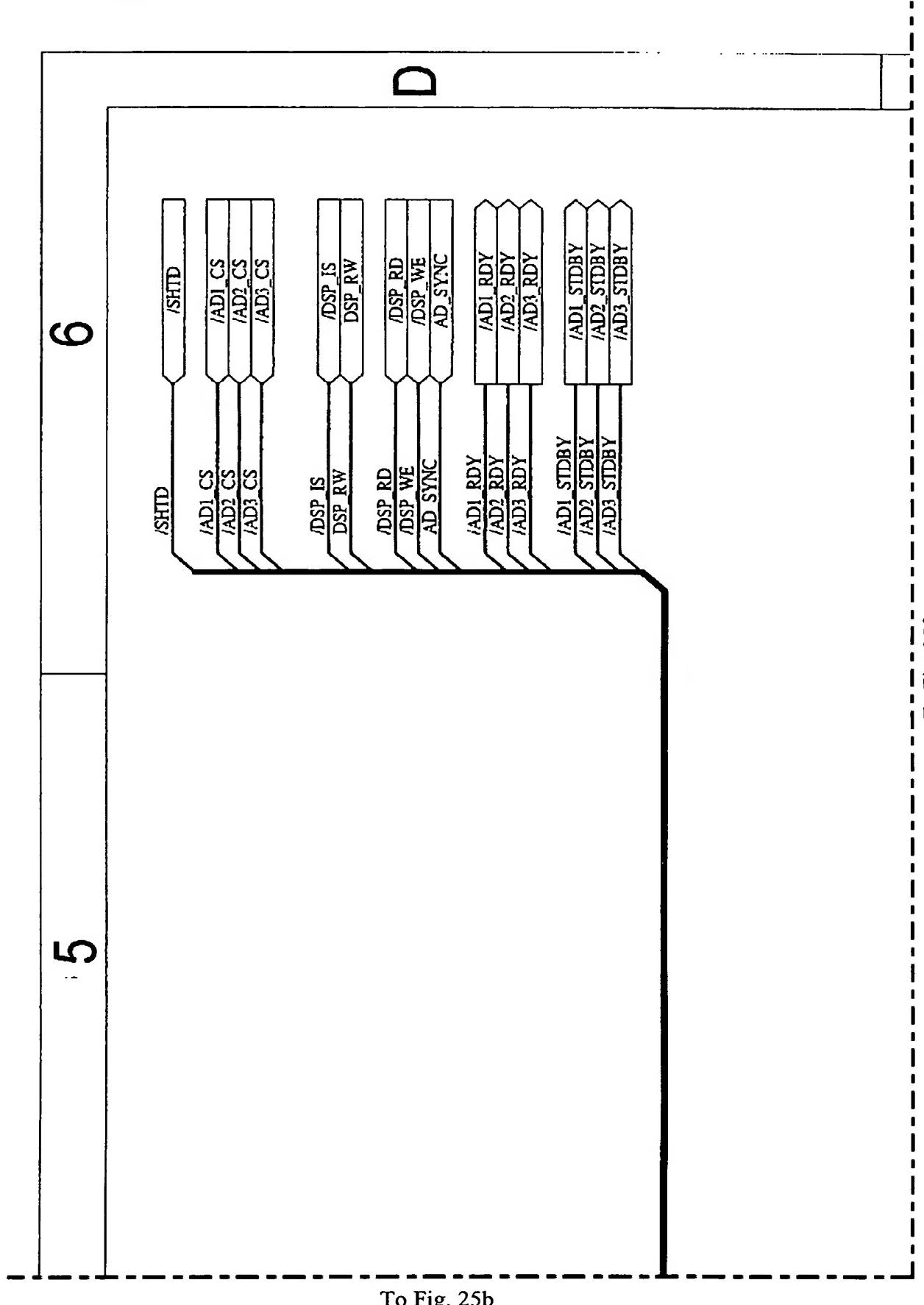
To Fig. 25c



To Fig. 25a

To Fig. 25e

FIG. 25c



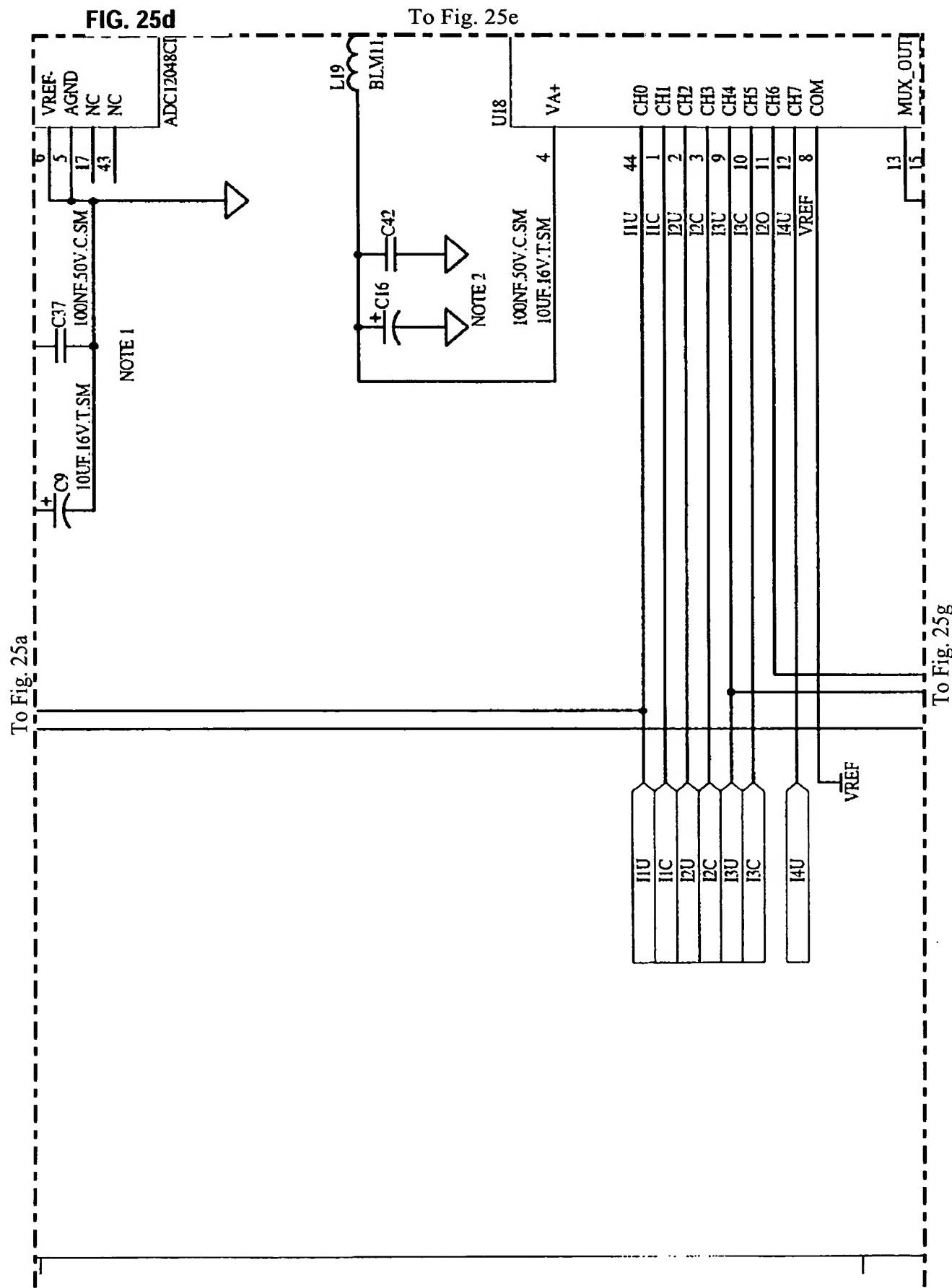
To Fig. 25f

To Fig. 25b

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125



**FIG. 25e**

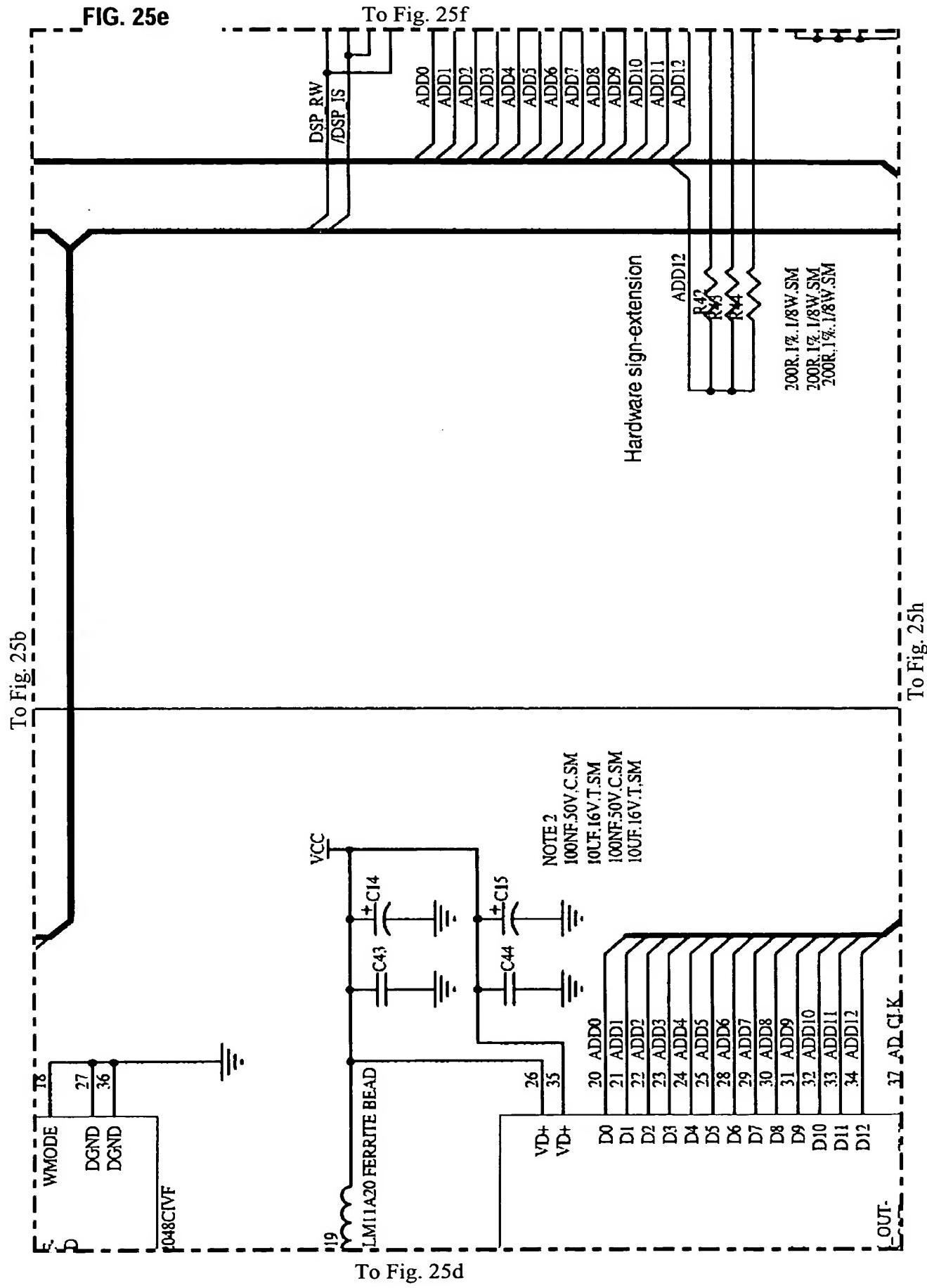
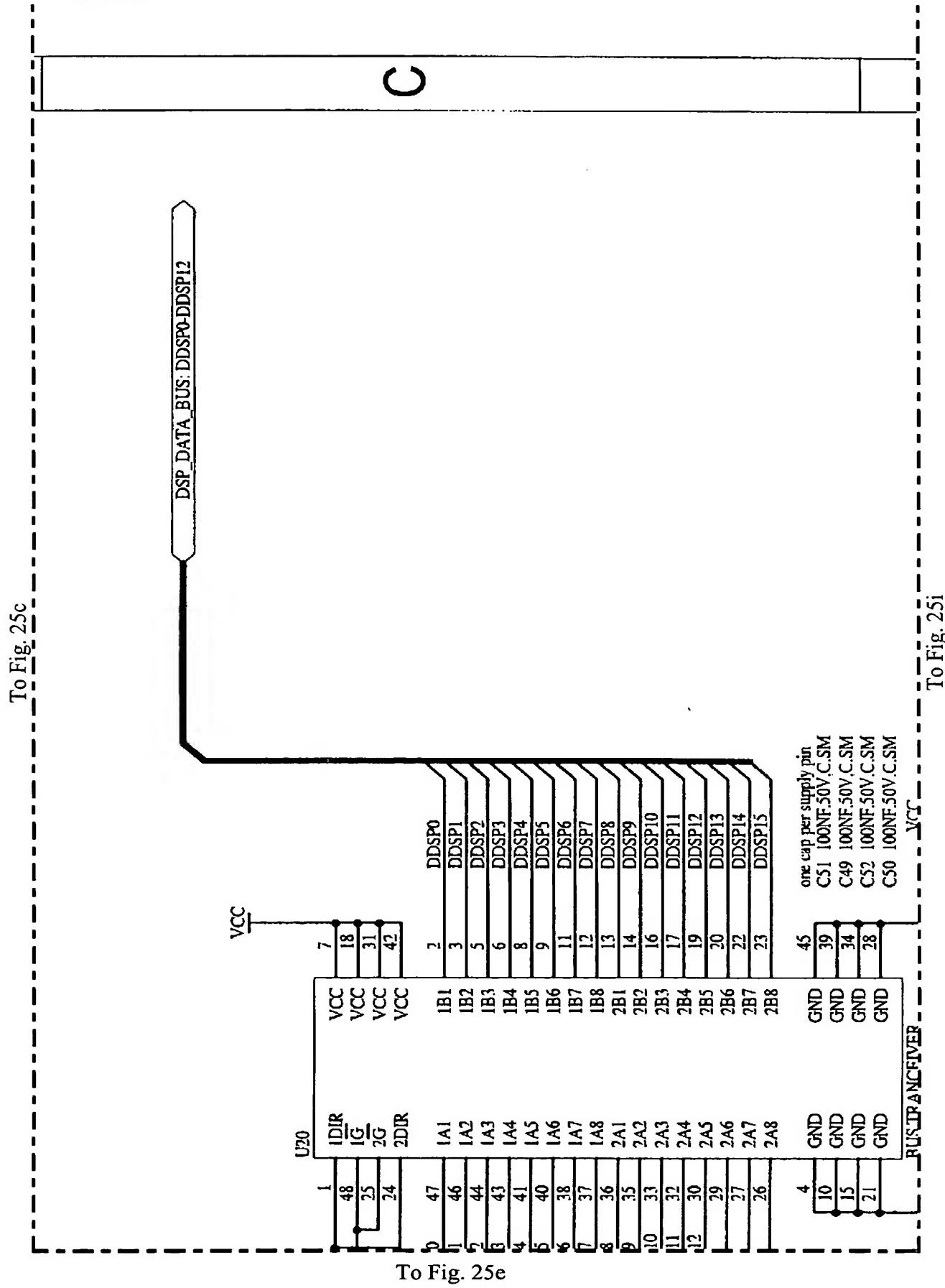
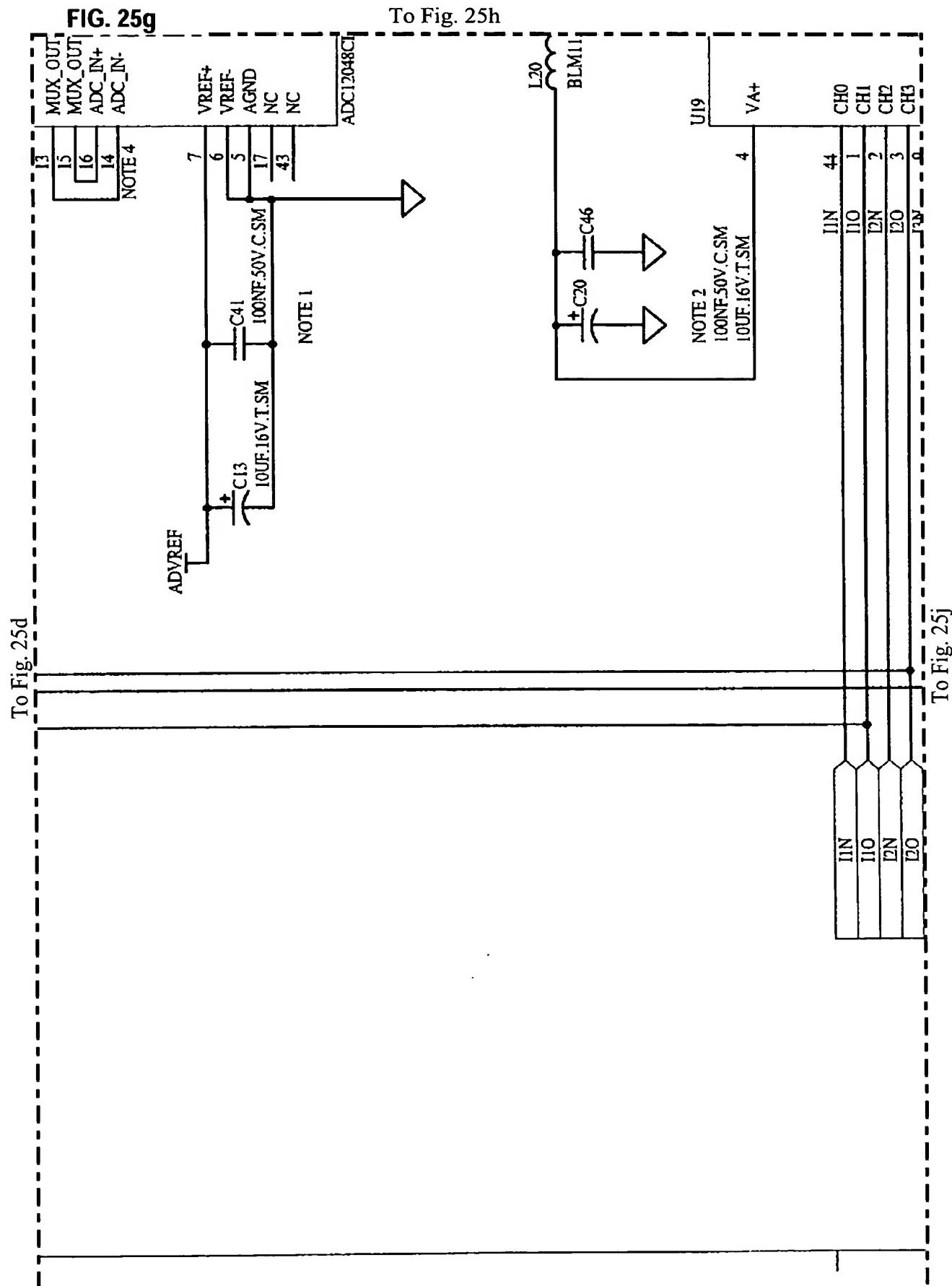


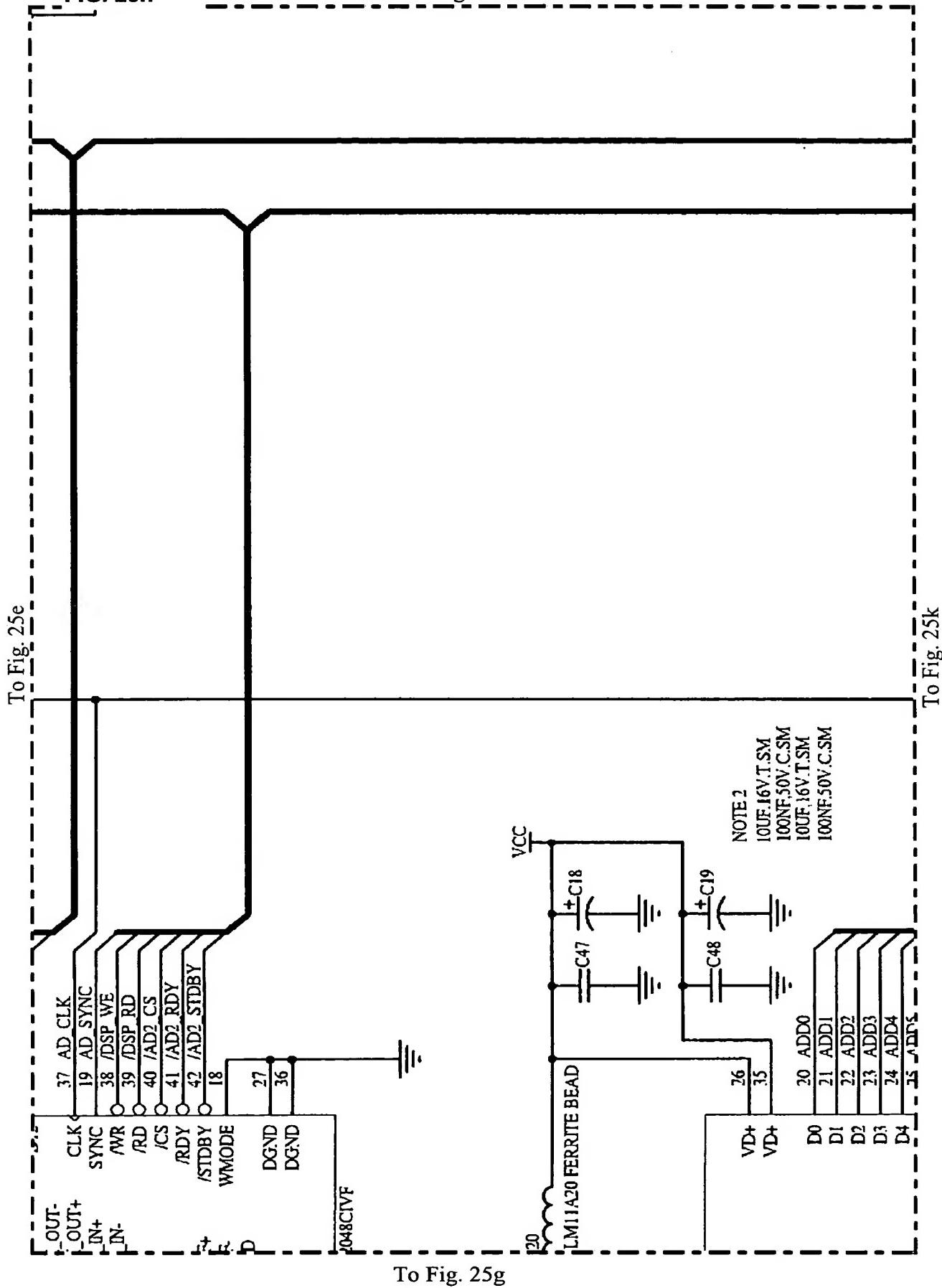
FIG. 25f



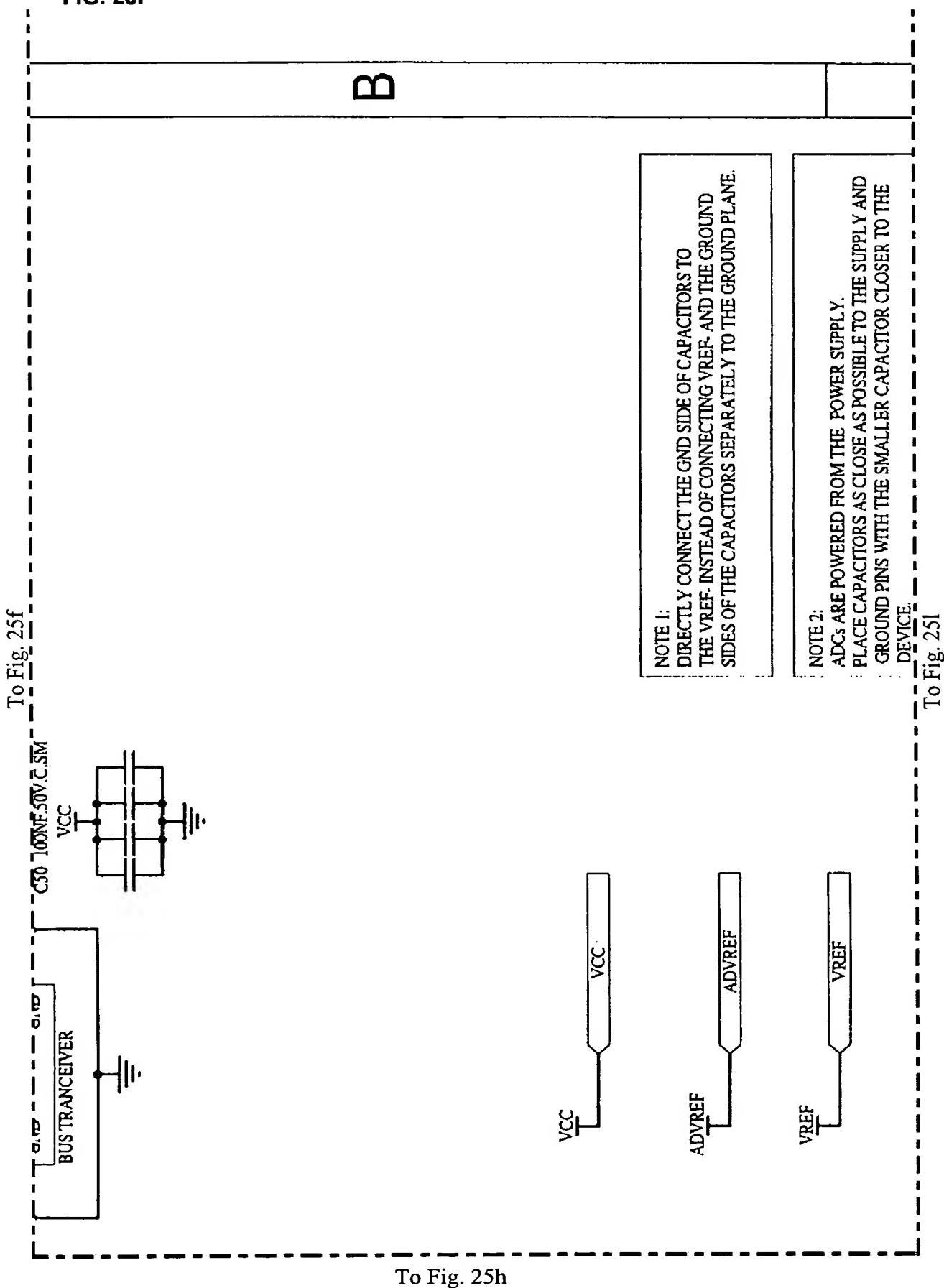


**FIG. 25h**

To Fig. 25i



**FIG. 25i**



**FIG. 25j**

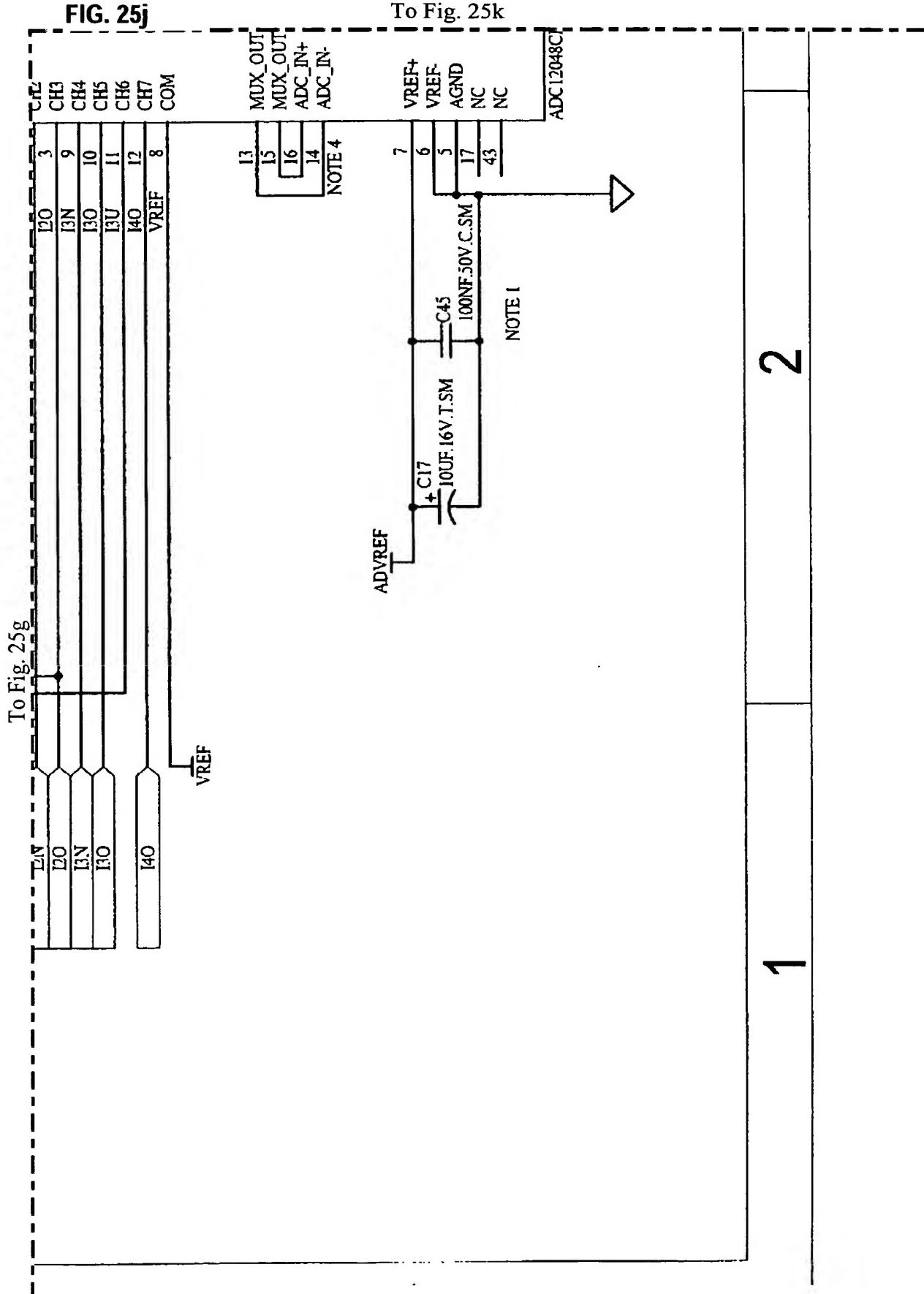


FIG. 25k

To Fig. 25l

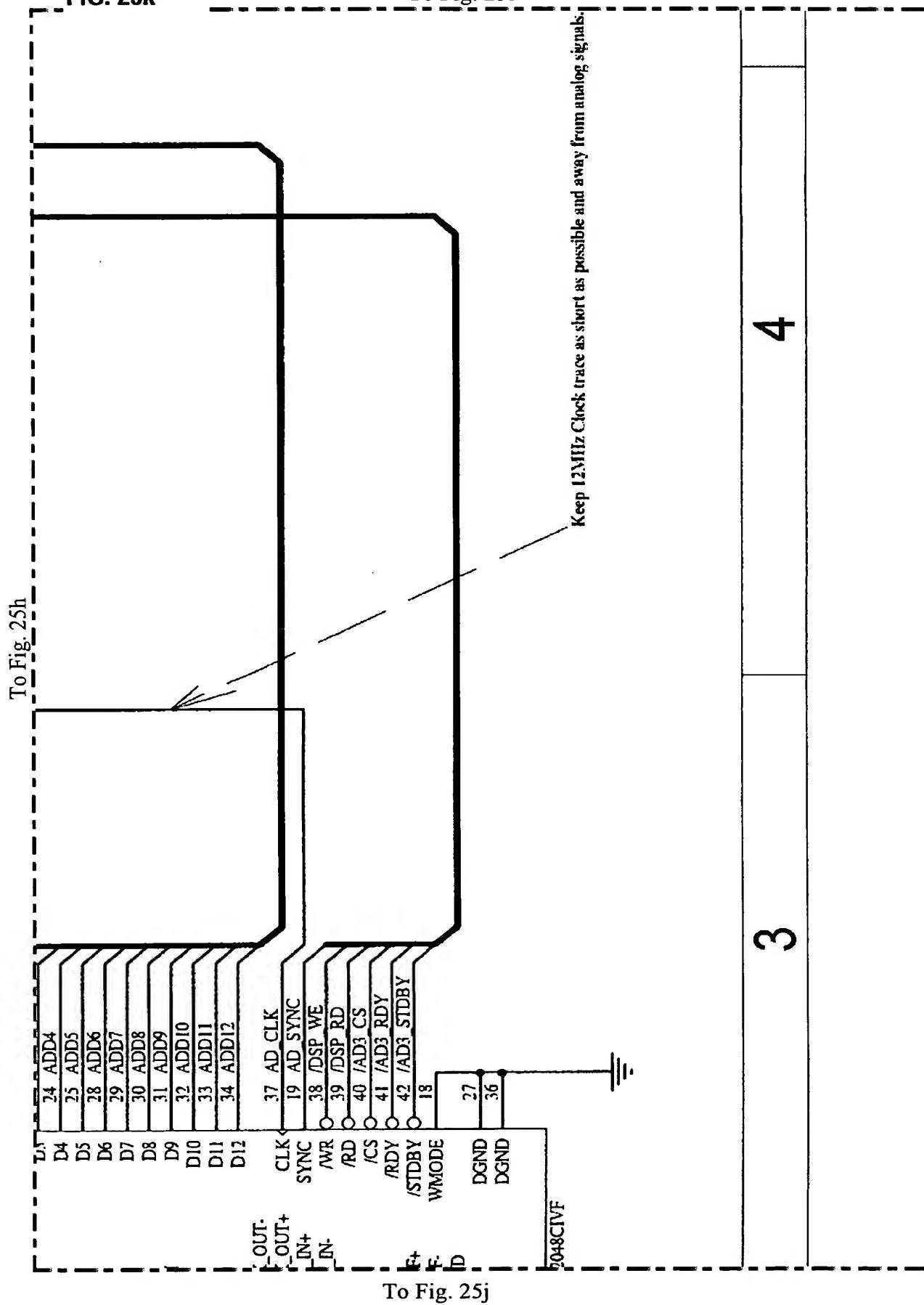
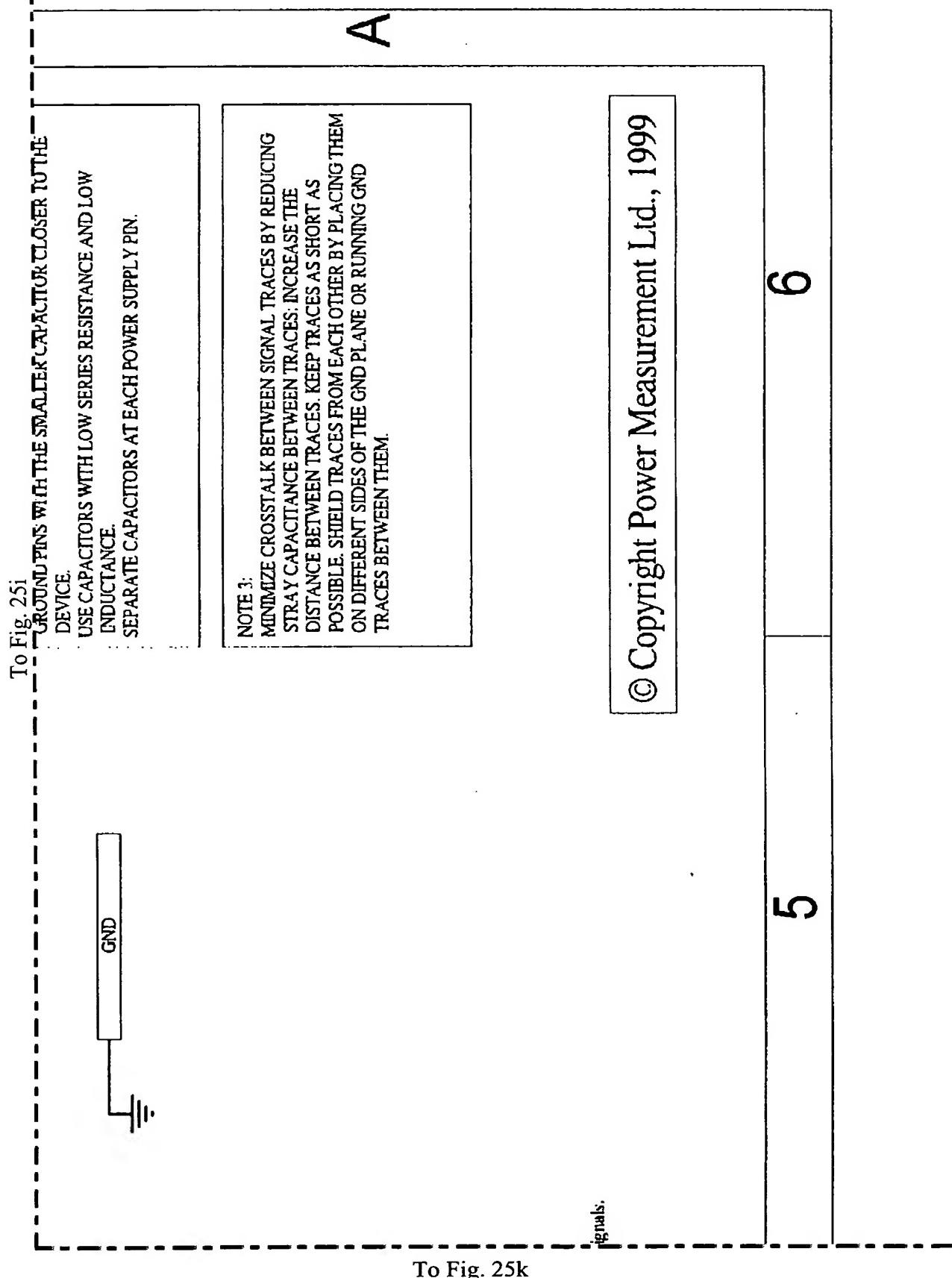
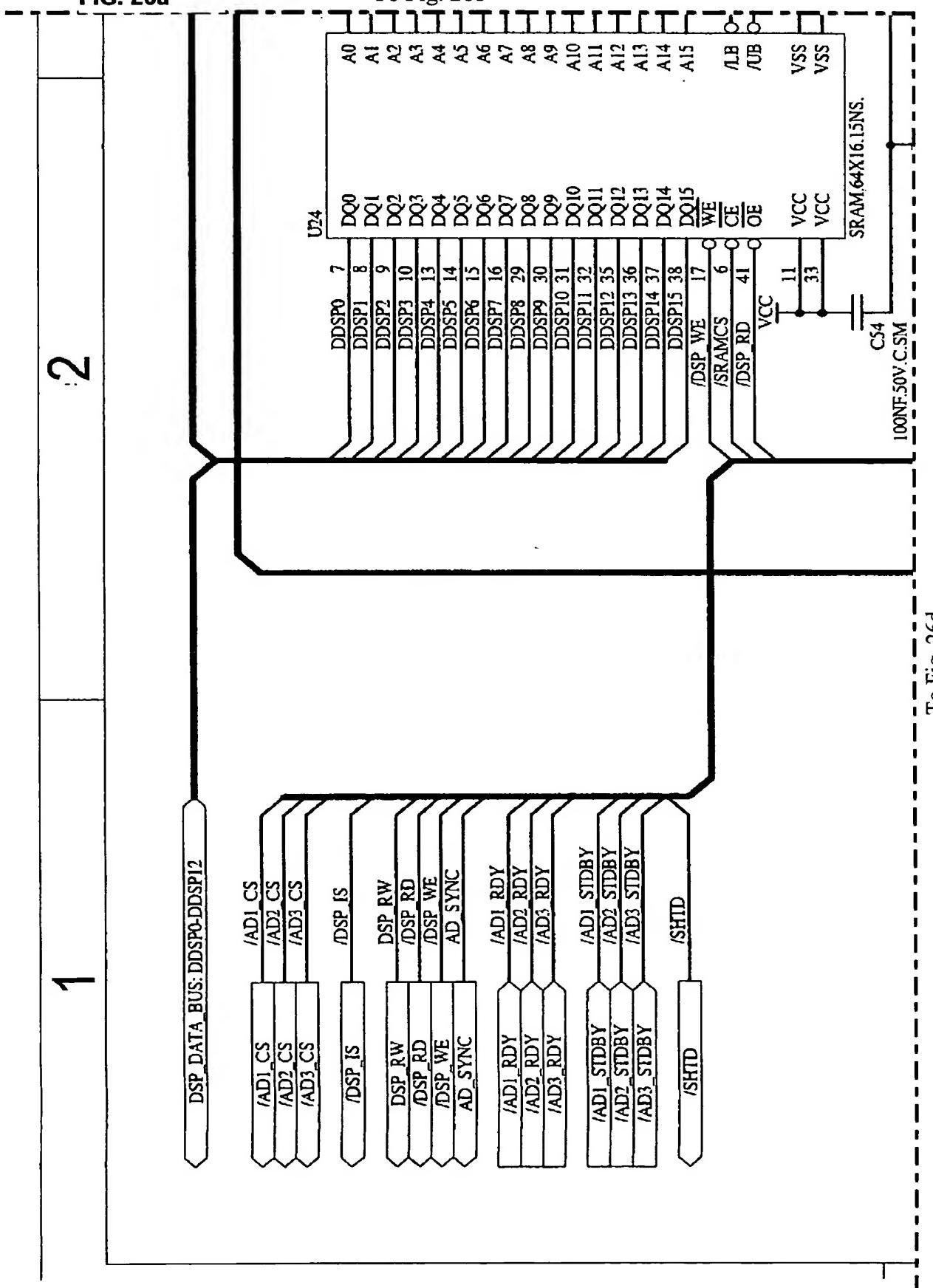


FIG. 25I

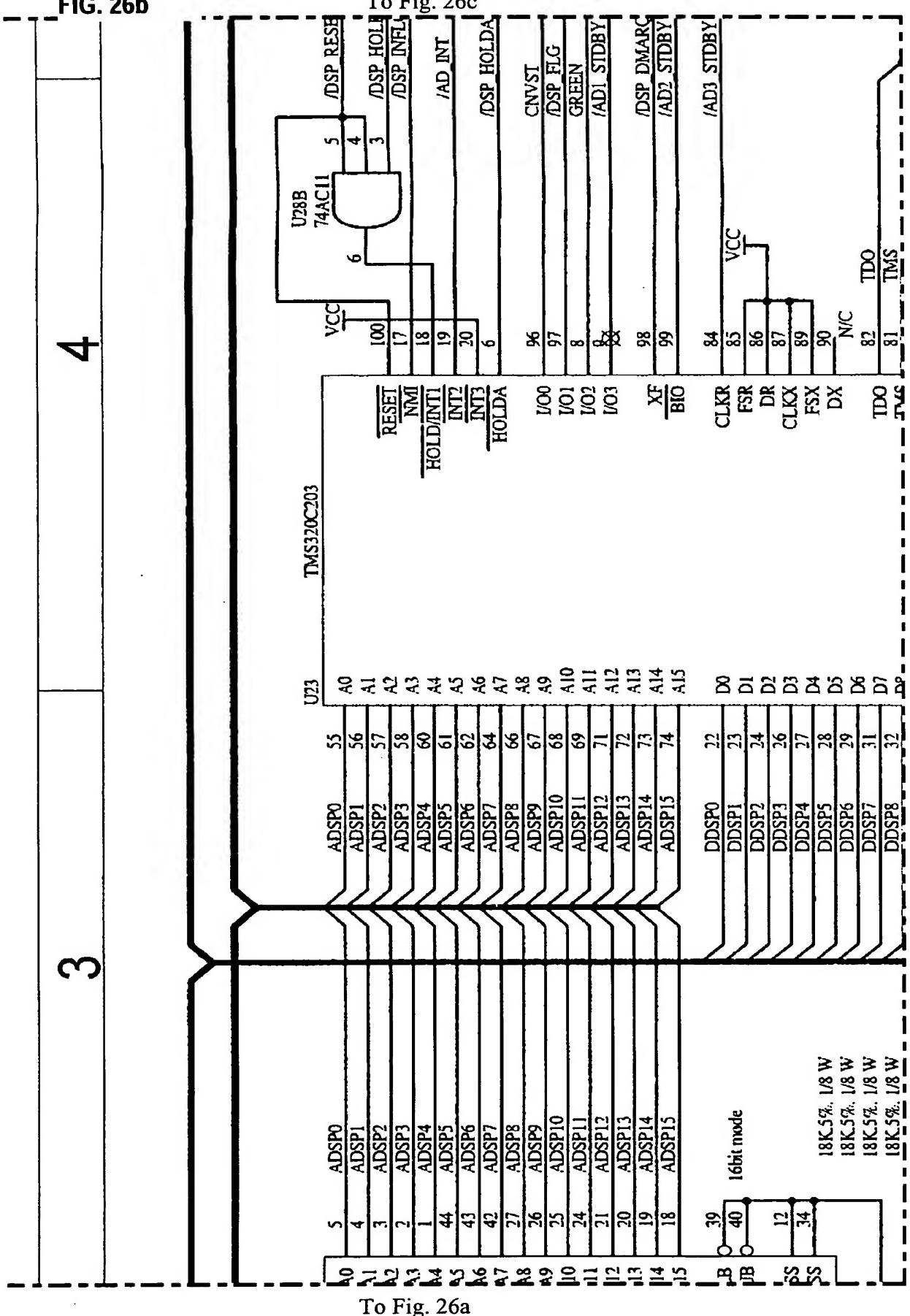


**FIG. 26a**

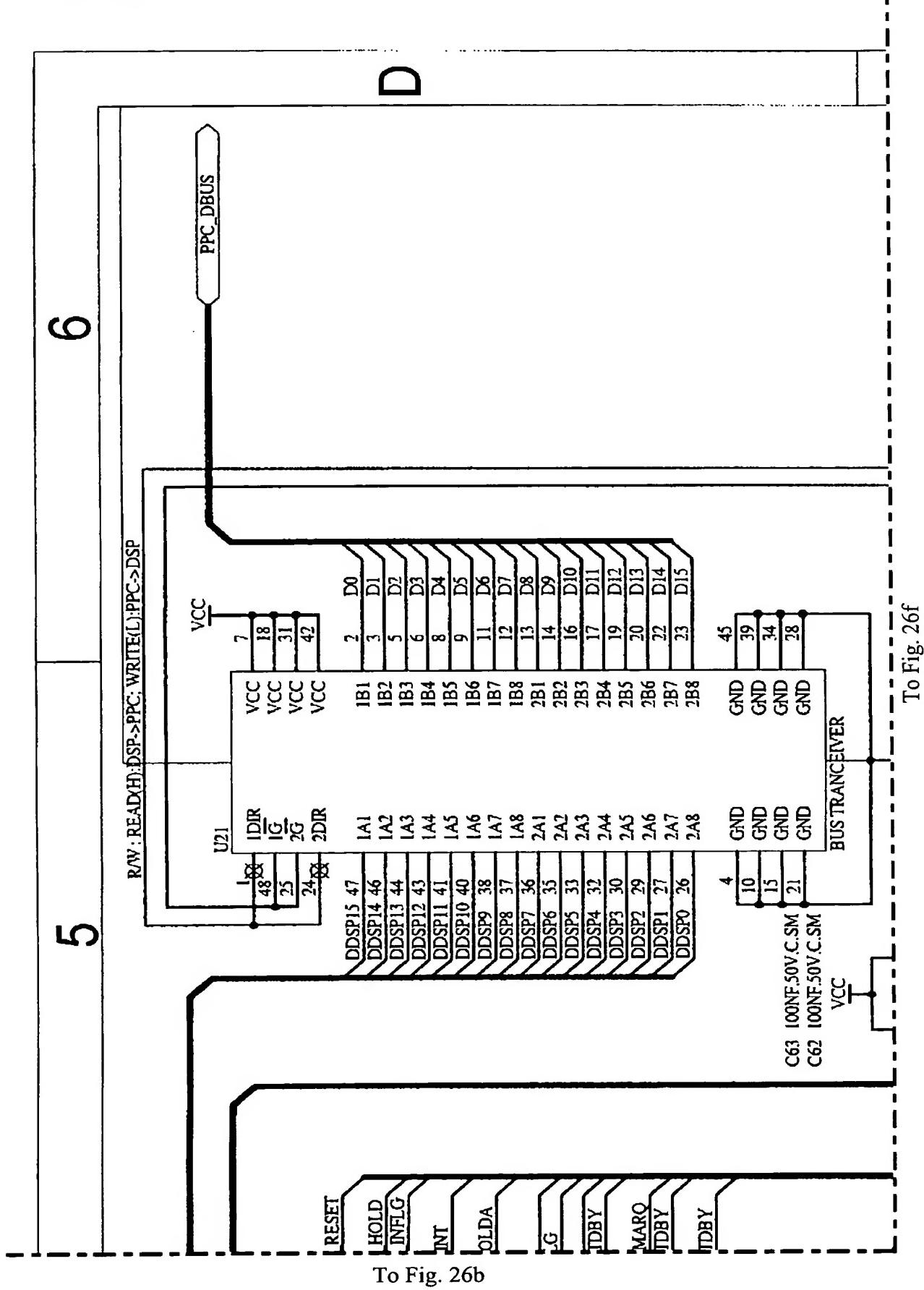
To Fig. 26b



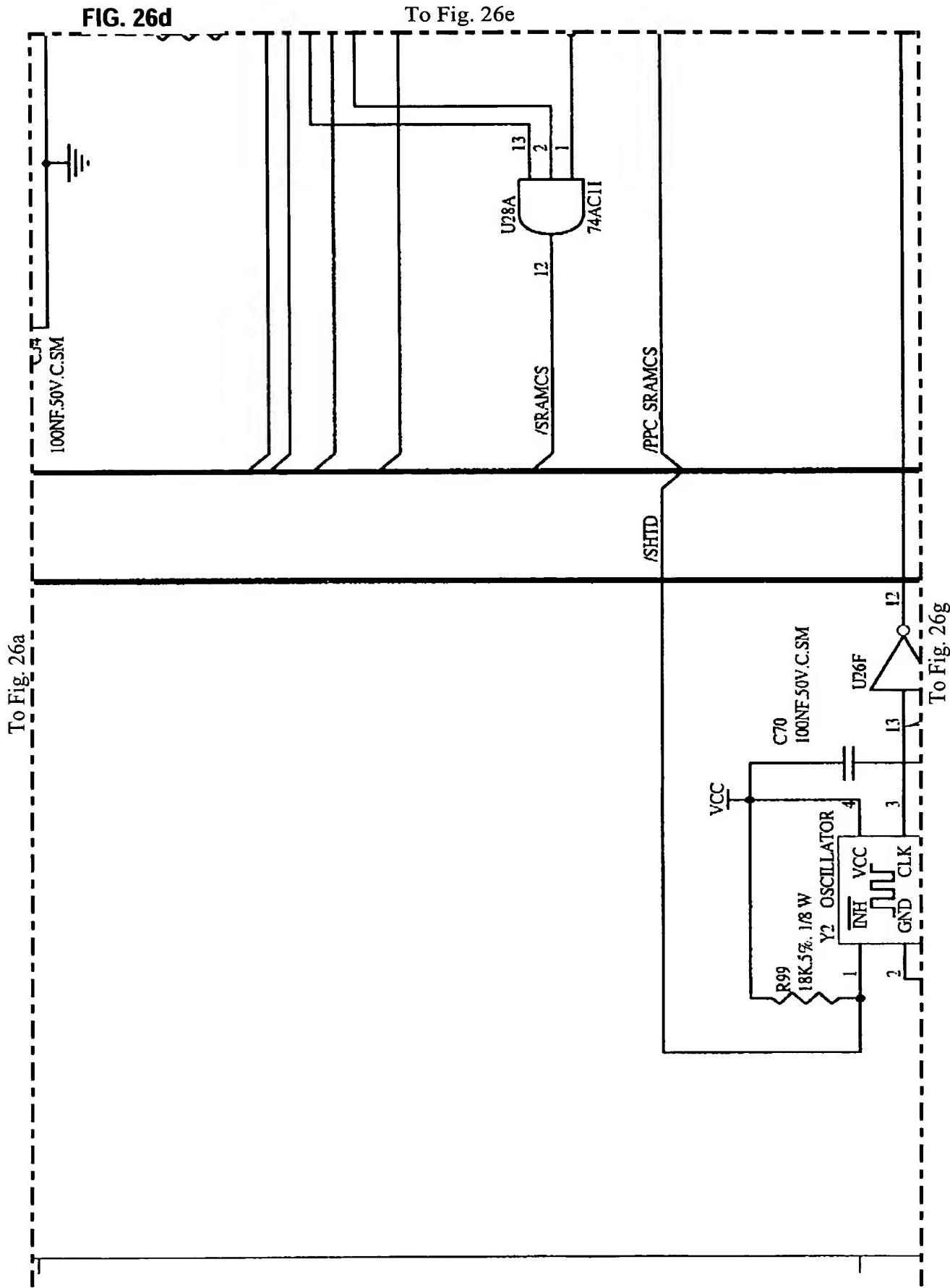
**FIG. 26b**



**FIG. 26c**

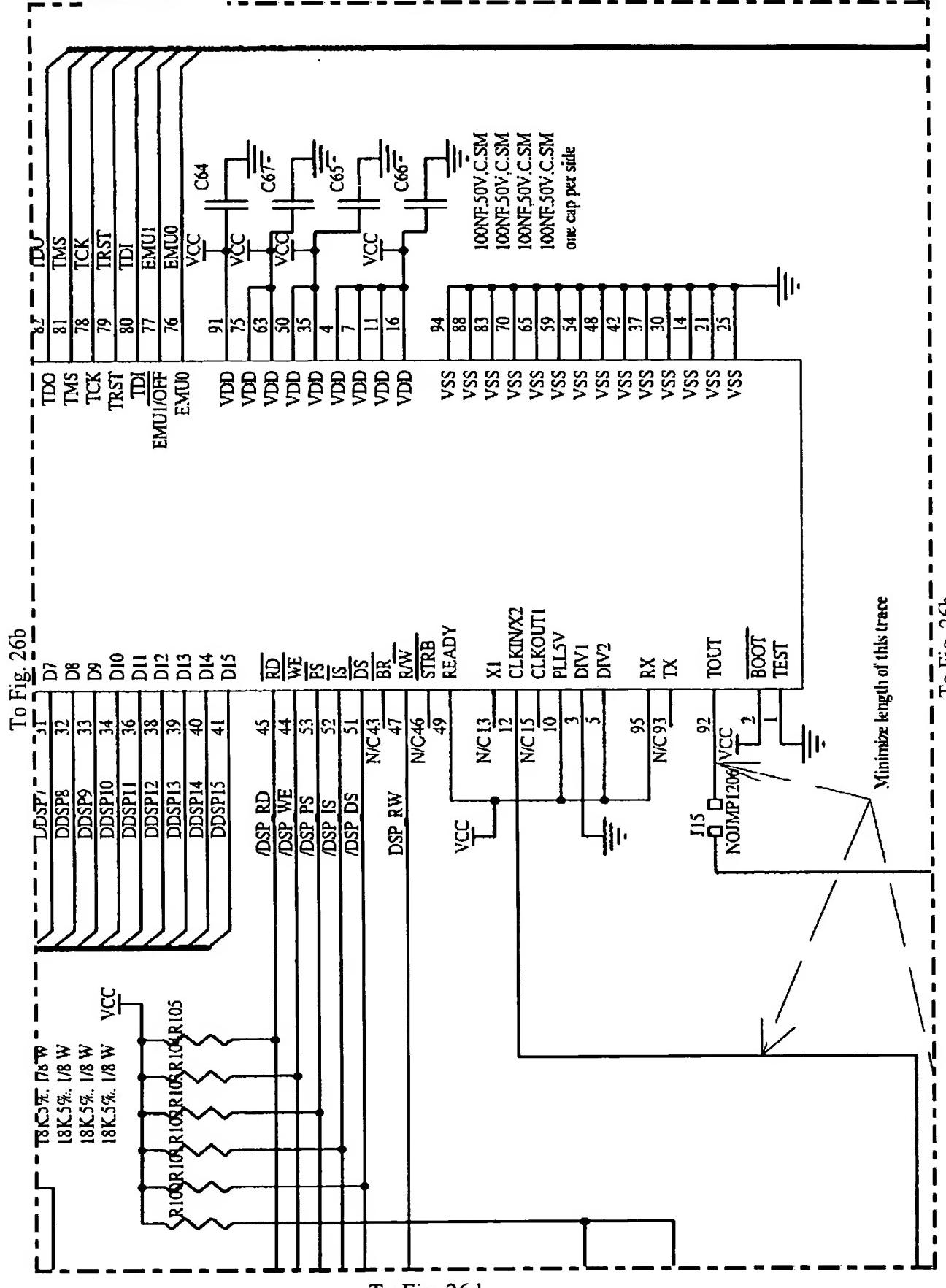


**FIG. 26d**

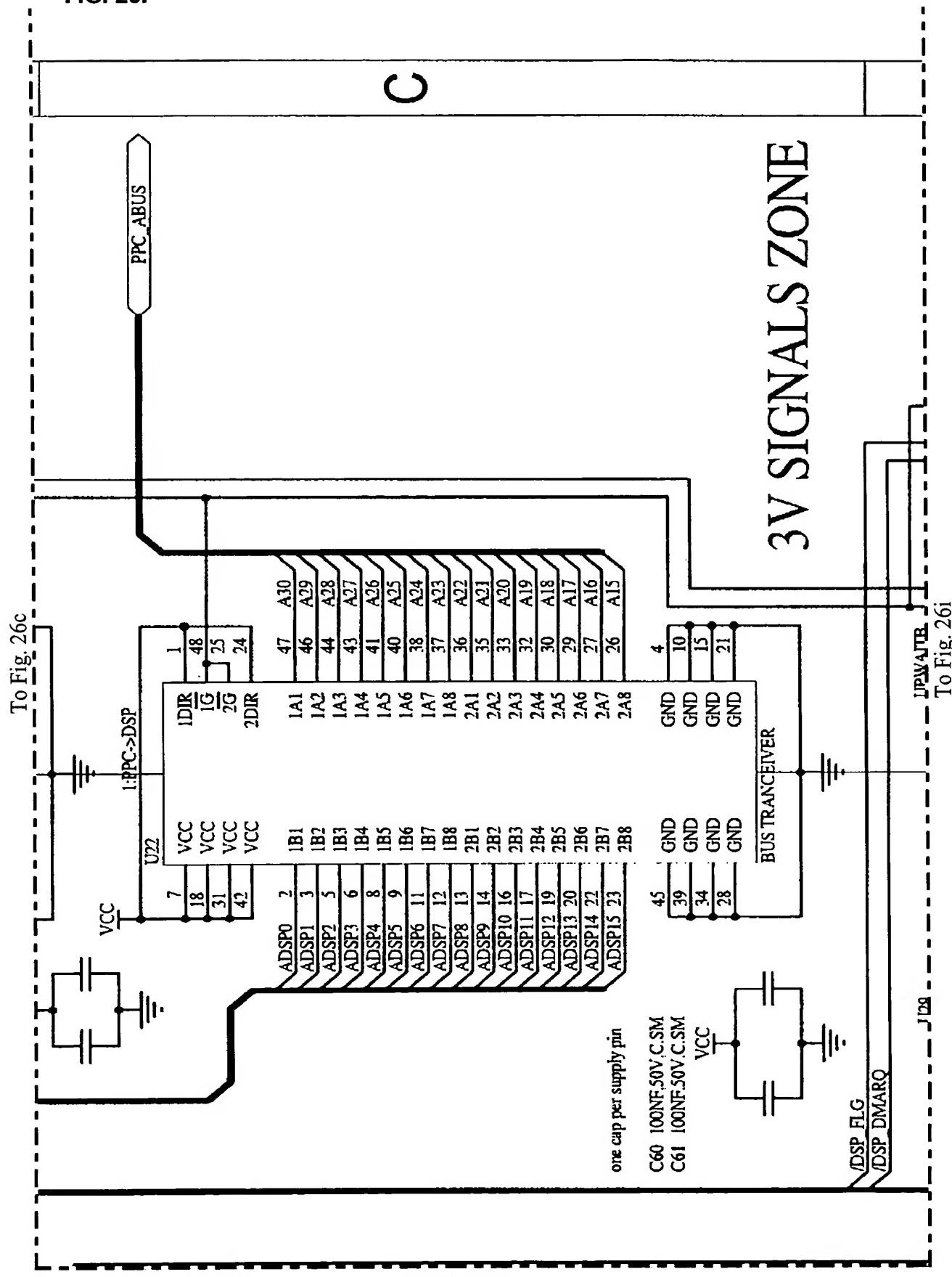


**FIG. 26e**

To Fig. 26f



**FIG. 26f**



To Fig. 26e

Inventor(s): David W. Giles et al

Inventor(s): David W. Gies et al  
Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 26g**

To Fig. 26h

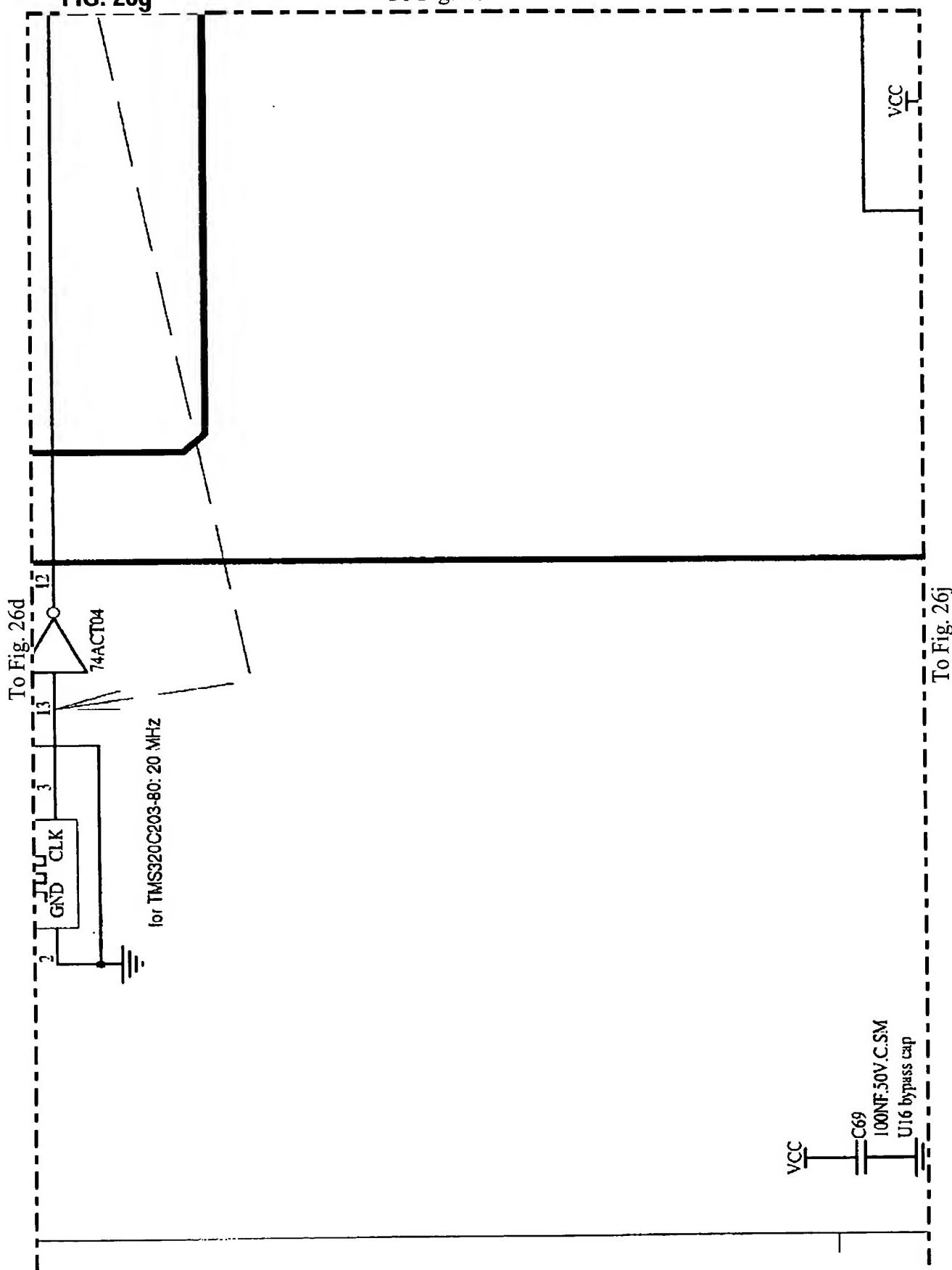
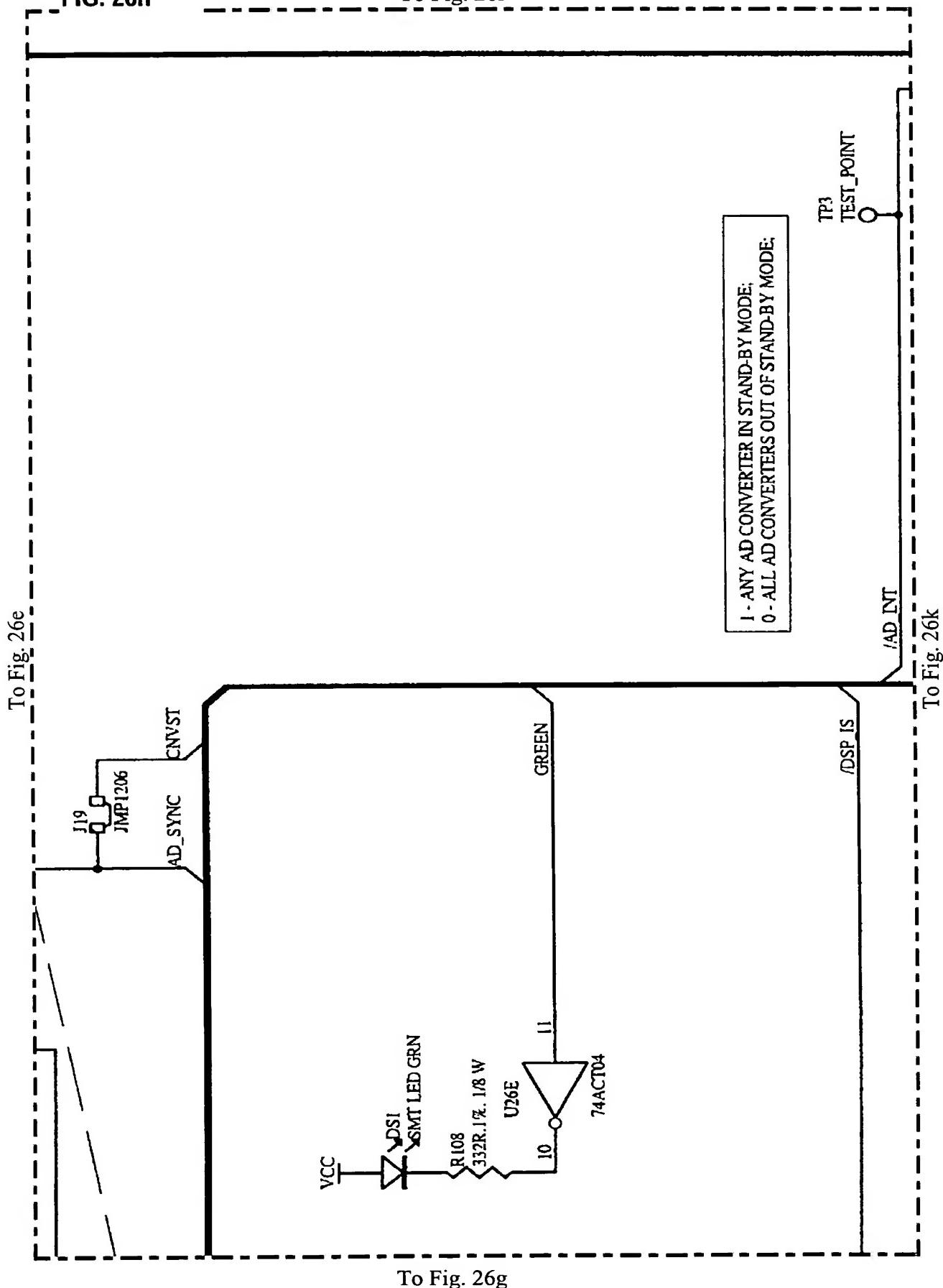


FIG. 26h

To Fig. 26i



To Fig. 26g

To Fig. 26k

**FIG. 26i**

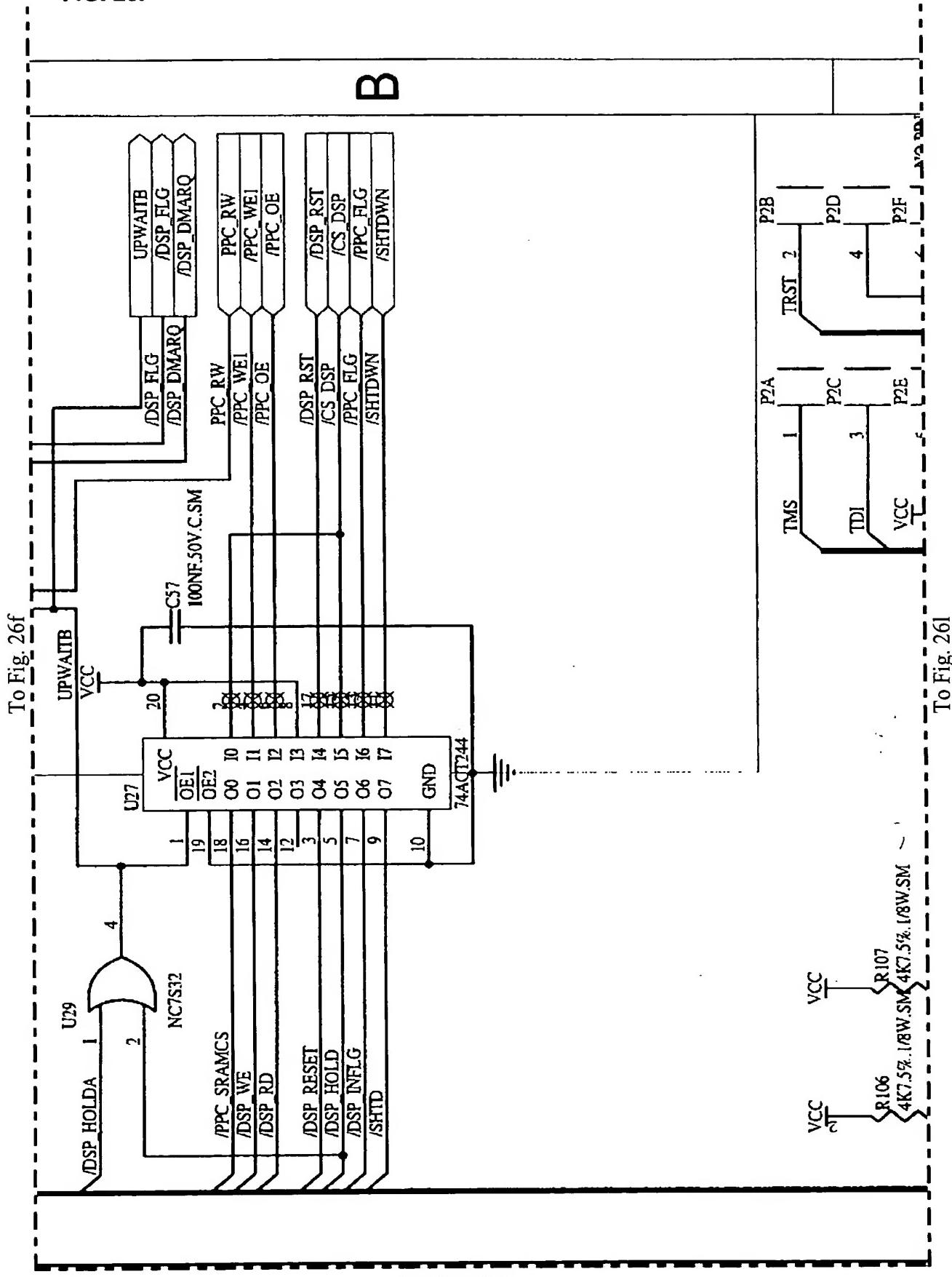
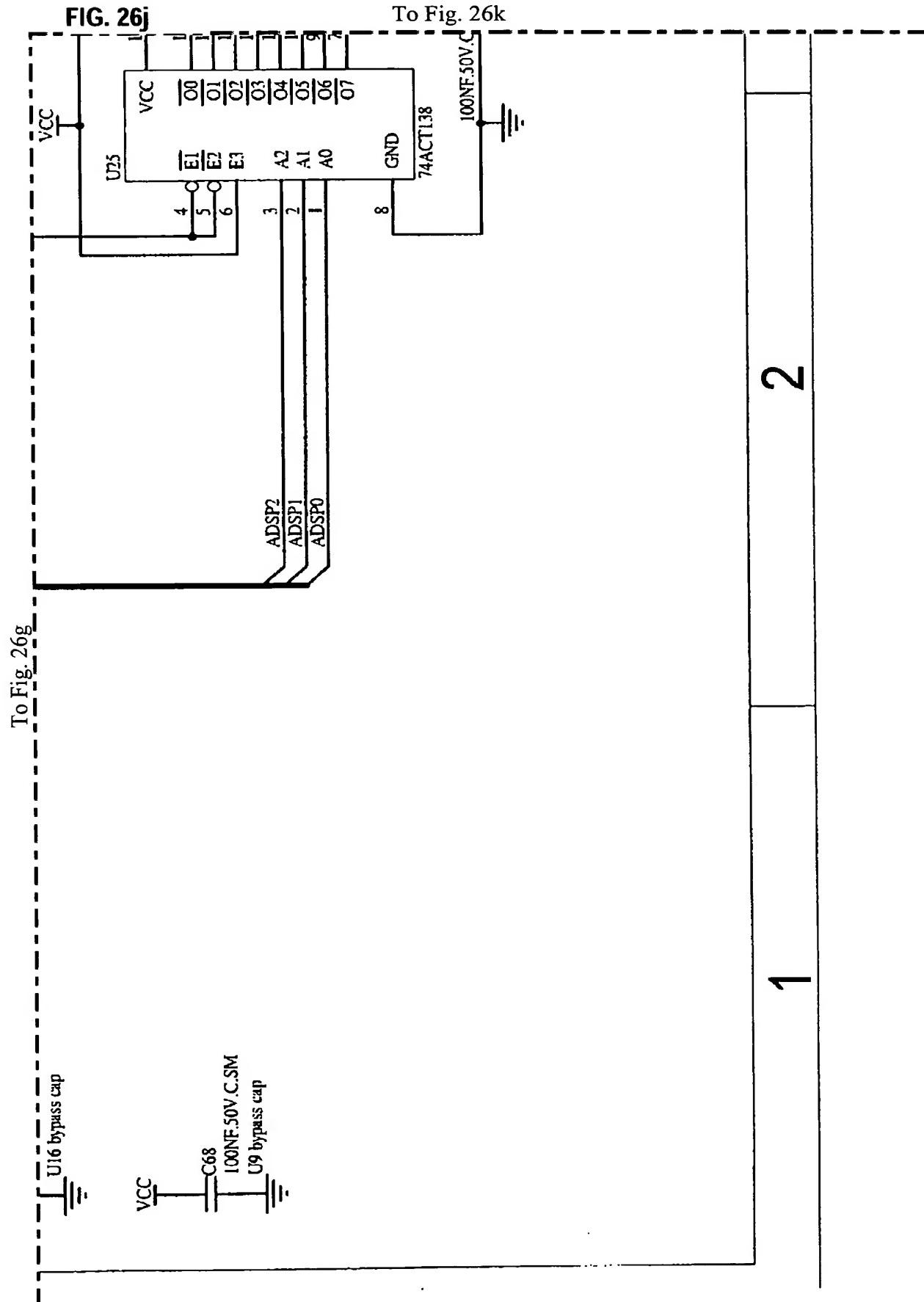


FIG. 26j



Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 26k**

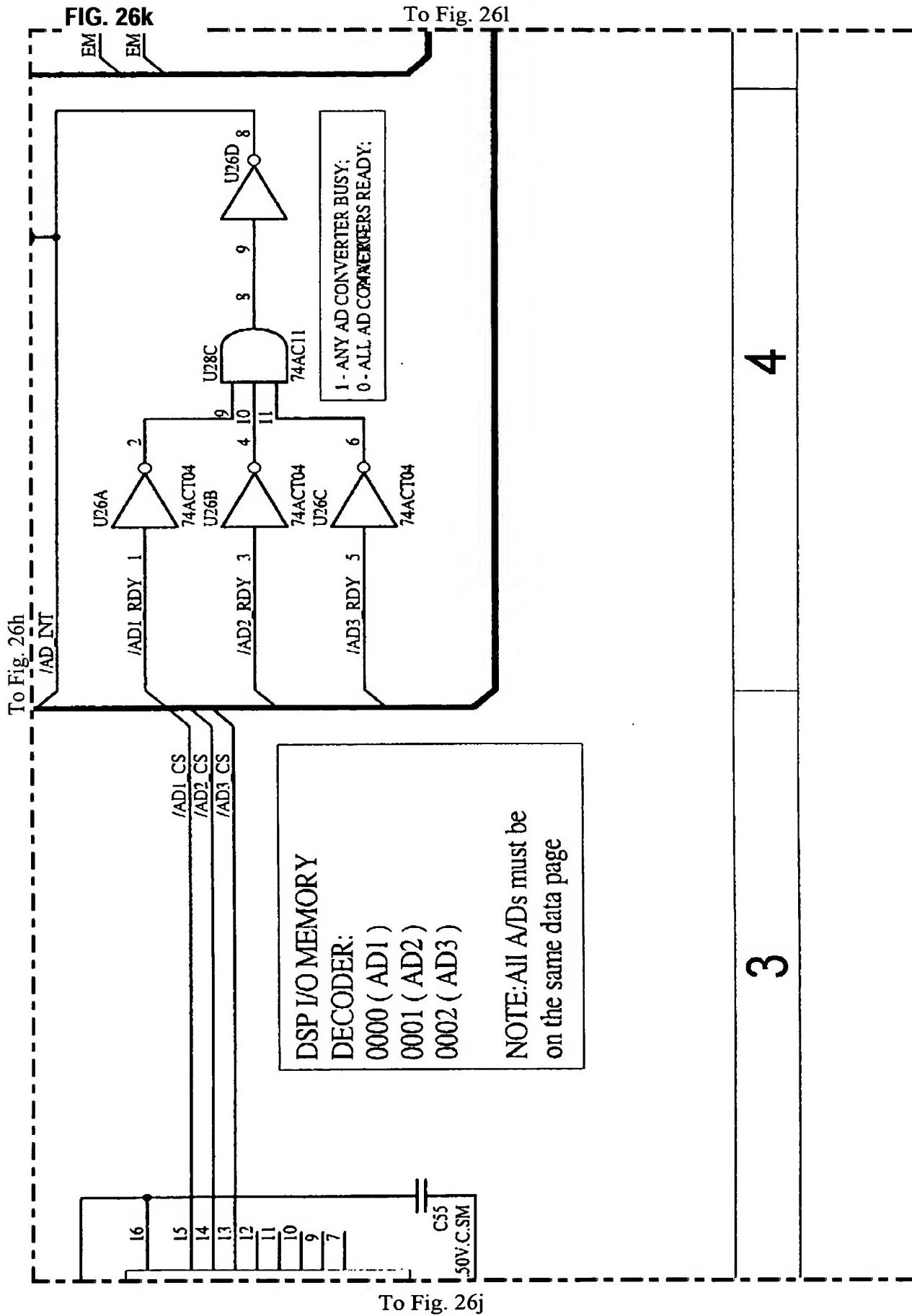
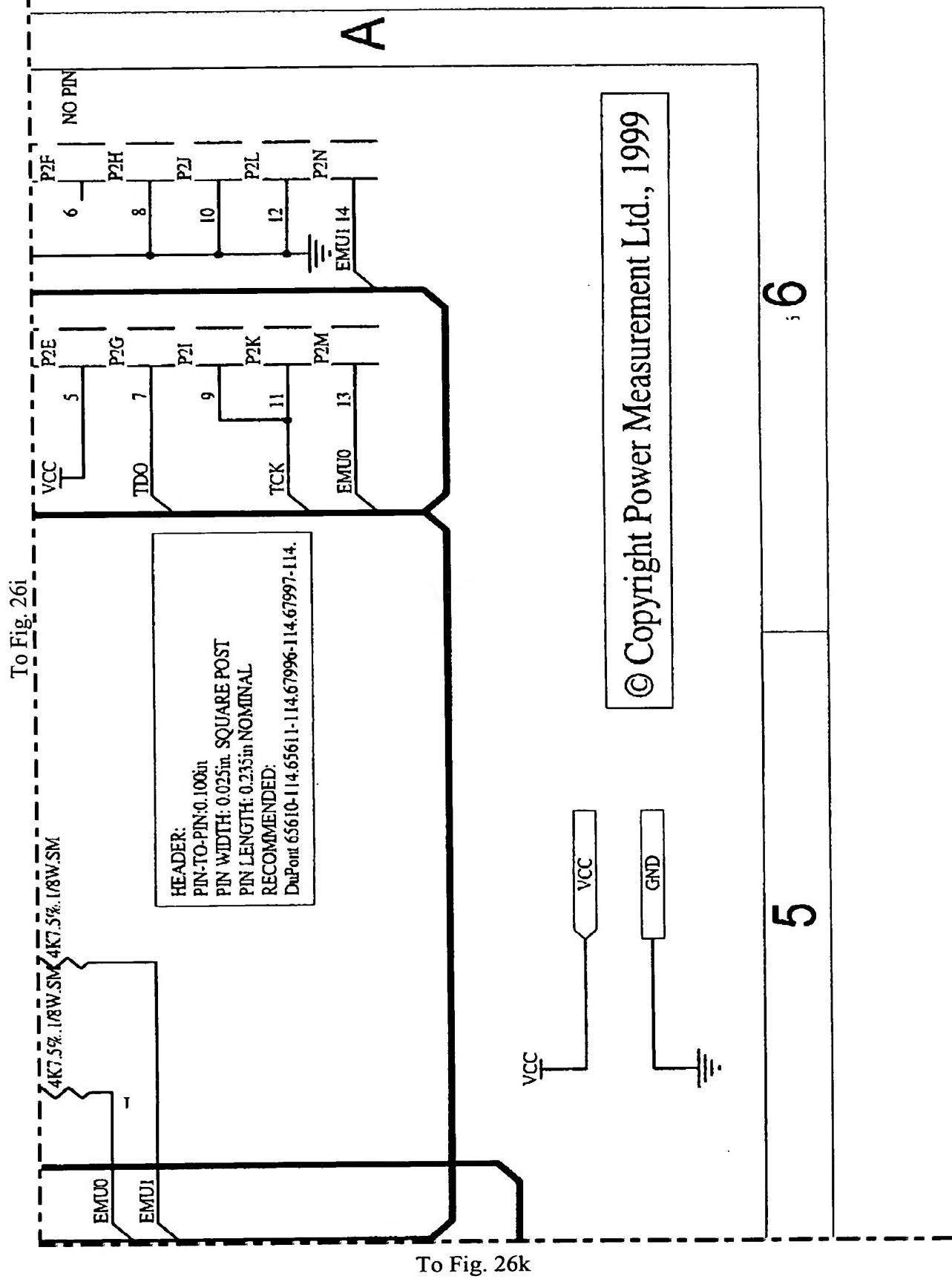


FIG. 26I



**FIG. 27a**

To Fig. 27b

2

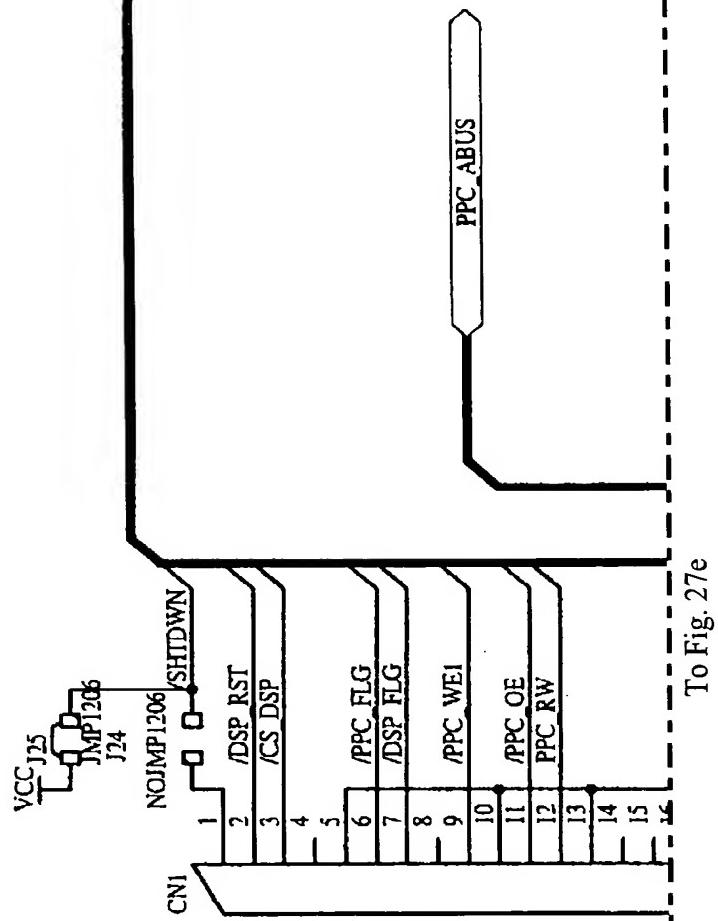
1

To Fig. 27d

FIG. 27b

To Fig. 27c

MEASUREMENT BOARD CONNECTOR



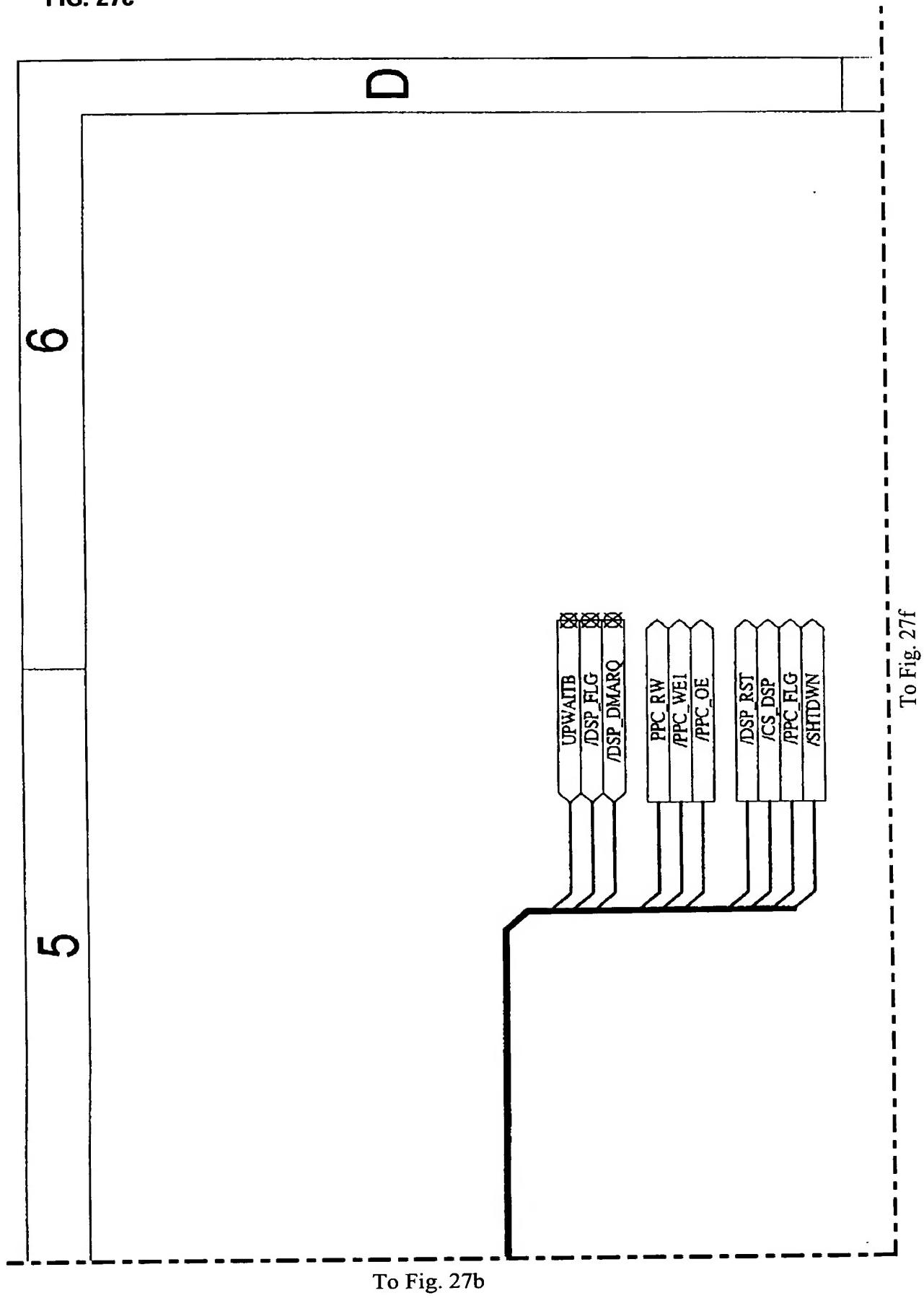
3

4

To Fig. 27a

To Fig. 27e

FIG. 27c



**FIG. 27d**

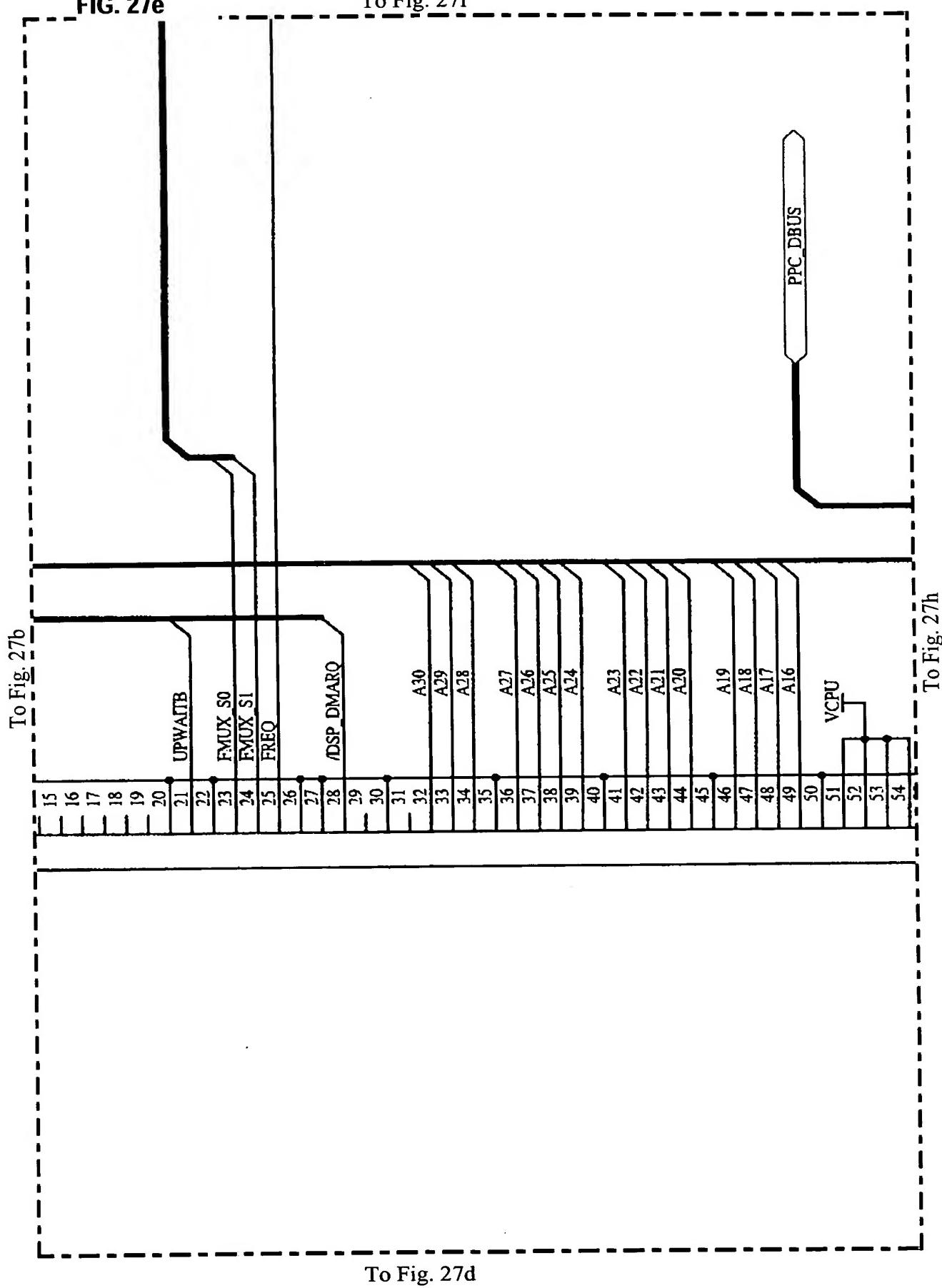
To Fig. 27e

To Fig. 27a

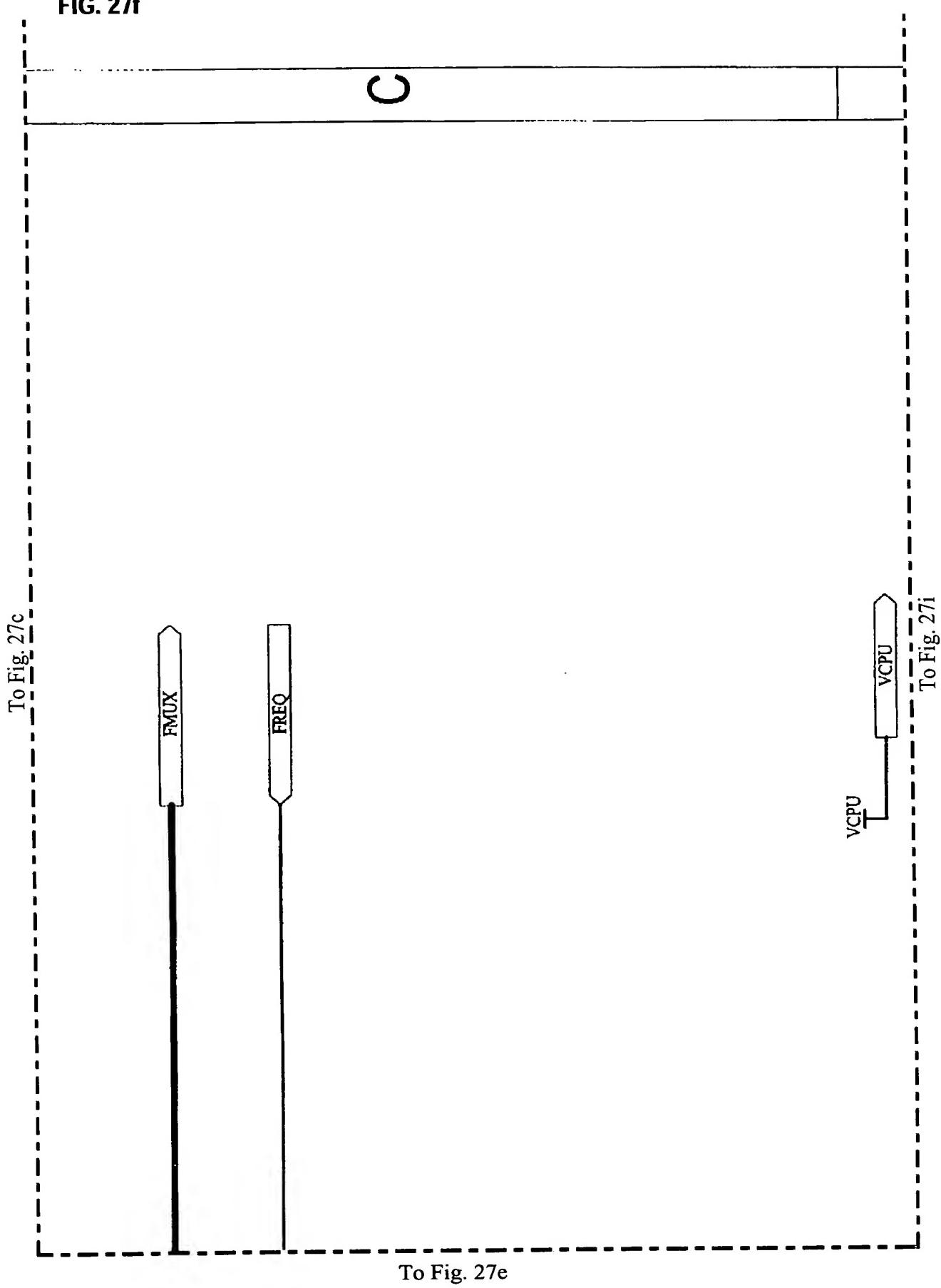
To Fig. 27g

**FIG. 27e**

To Fig. 27f



**FIG. 27f**



**FIG. 27g**

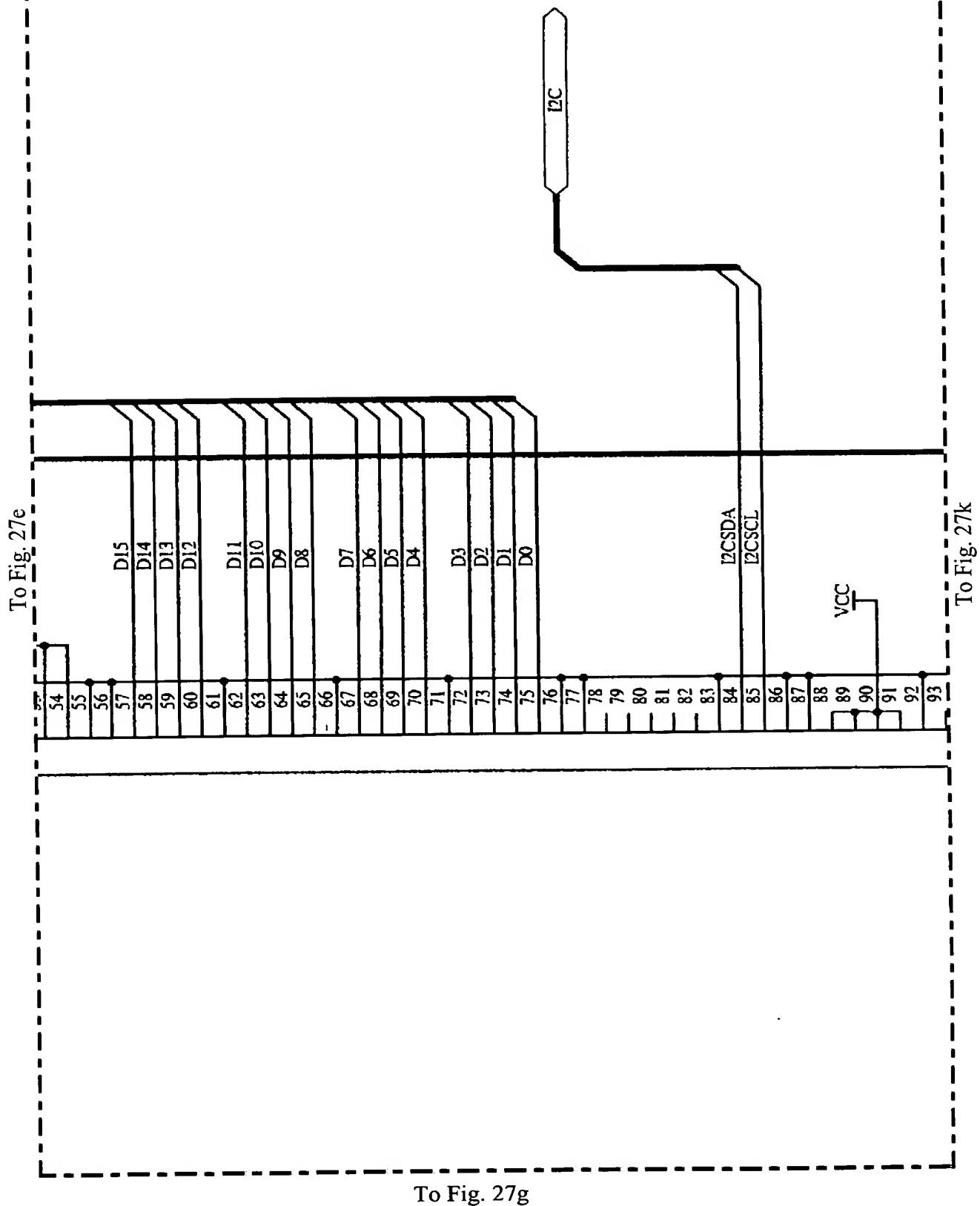
To Fig. 27h

To Fig. 27d

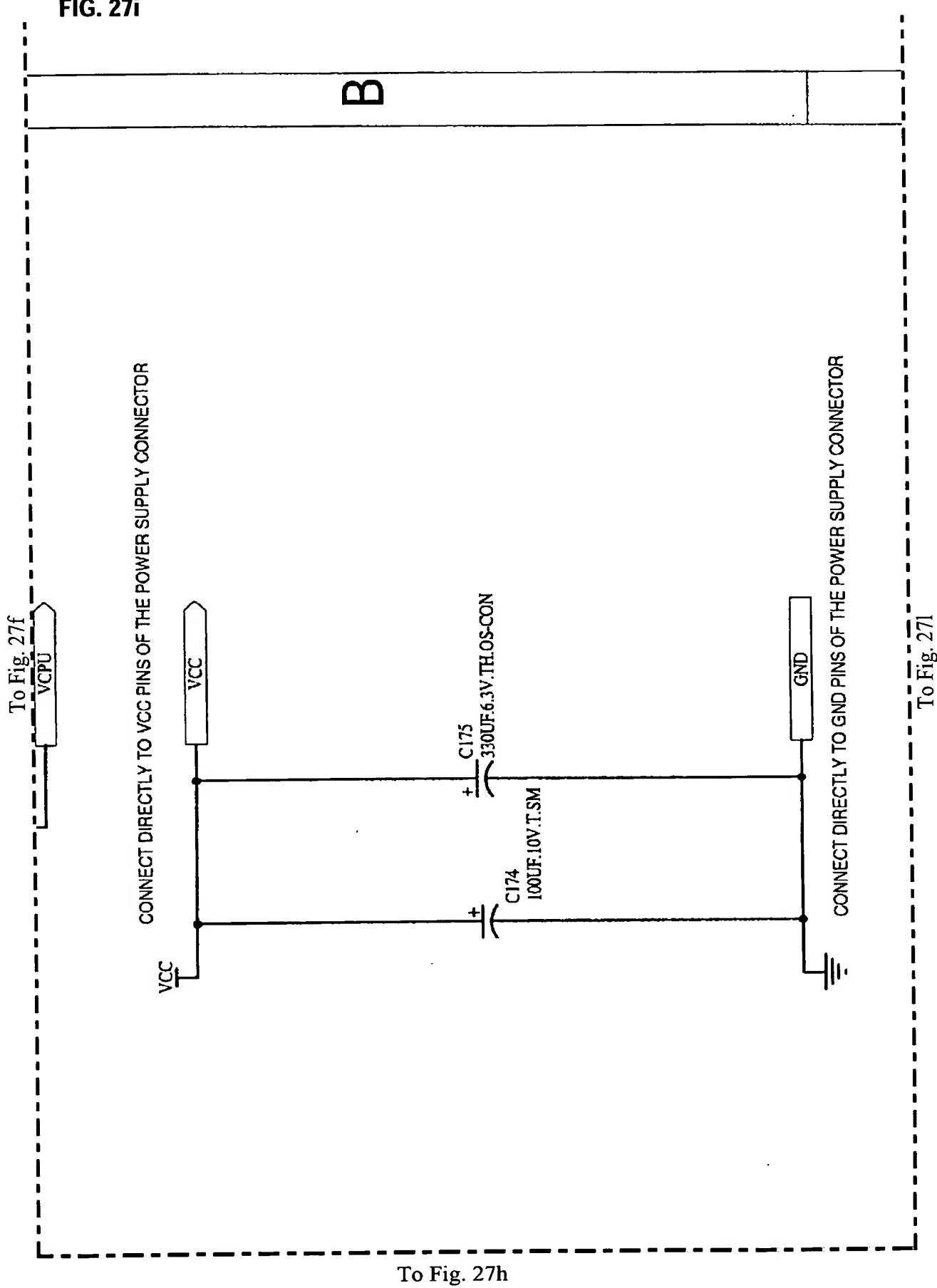
To Fig. 27j

FIG. 27h

To Fig. 27i



**FIG. 27i**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

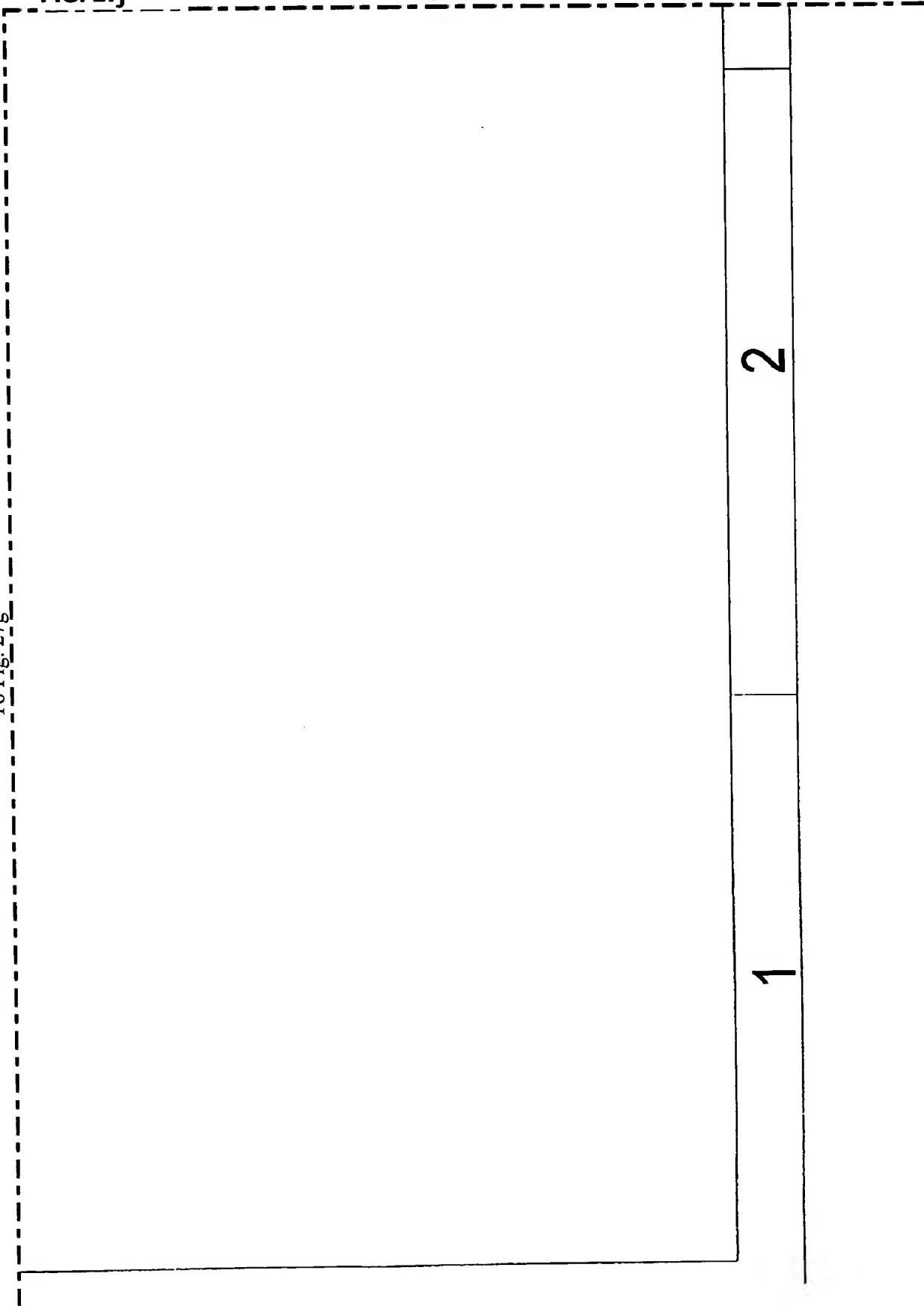
**FIG. 27j**

To Fig. 27k

To Fig. 27g

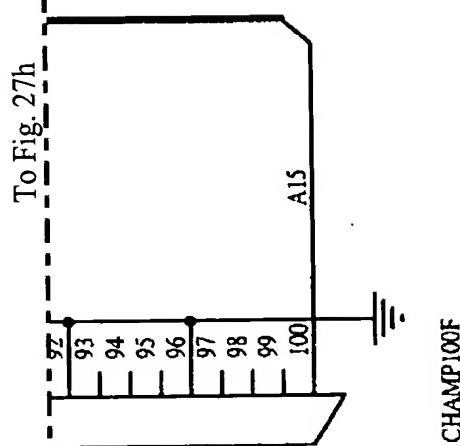
2

1



**FIG. 27k**

To Fig. 27l



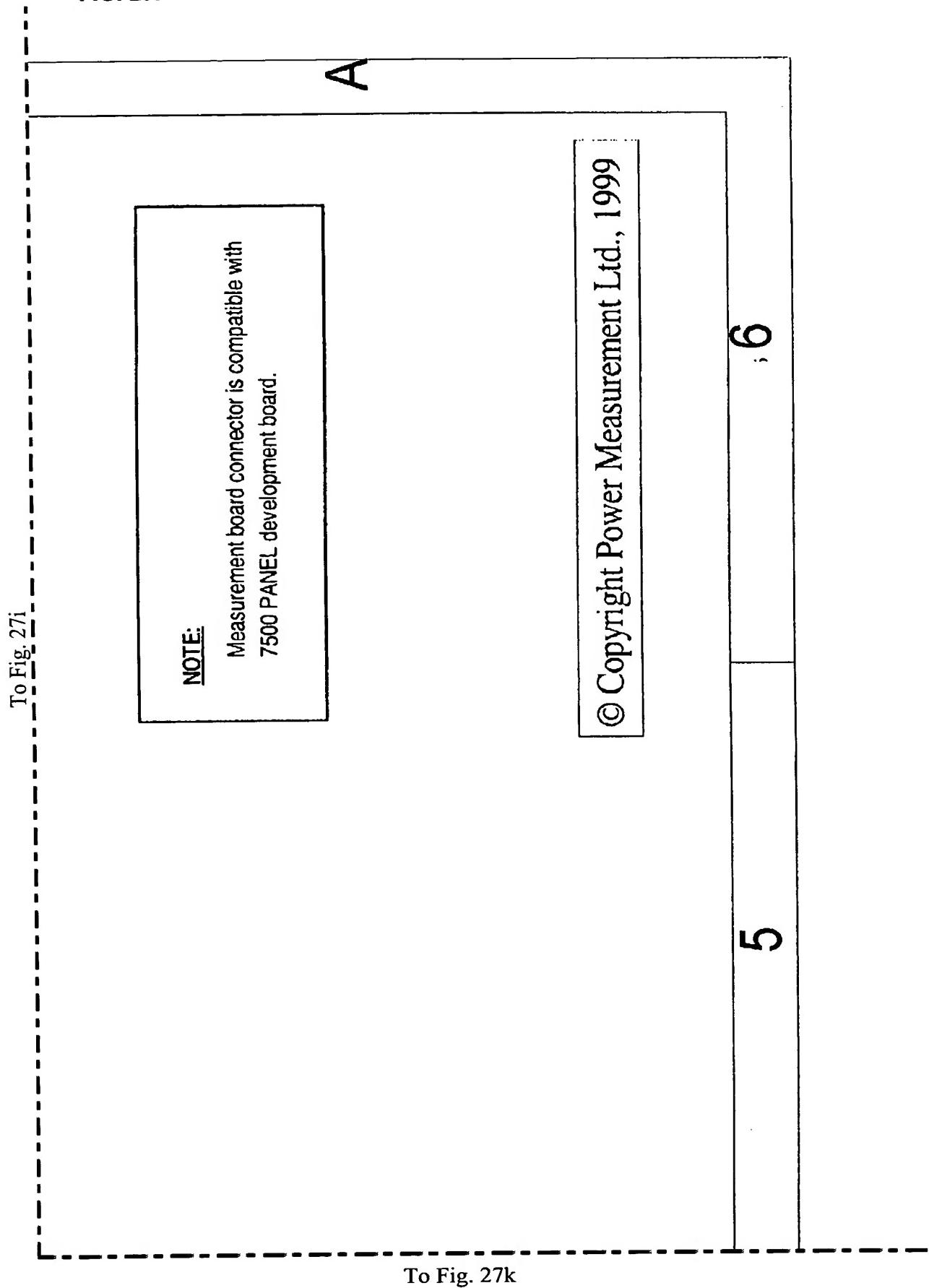
To Fig. 27h

**4**

**3**

To Fig. 27j

**FIG. 27I**



To Fig. 27k

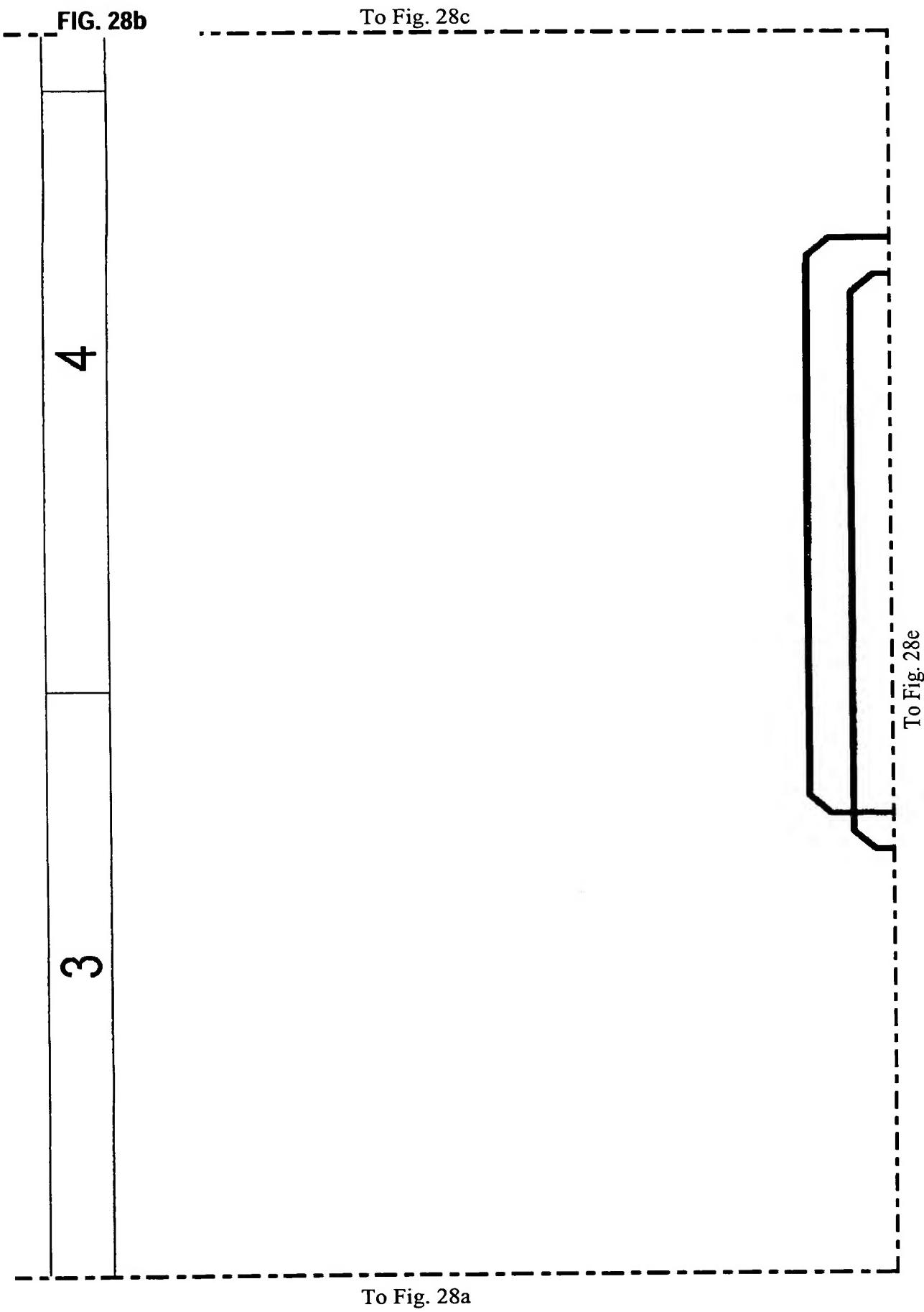
**FIG. 28a**

To Fig. 28b

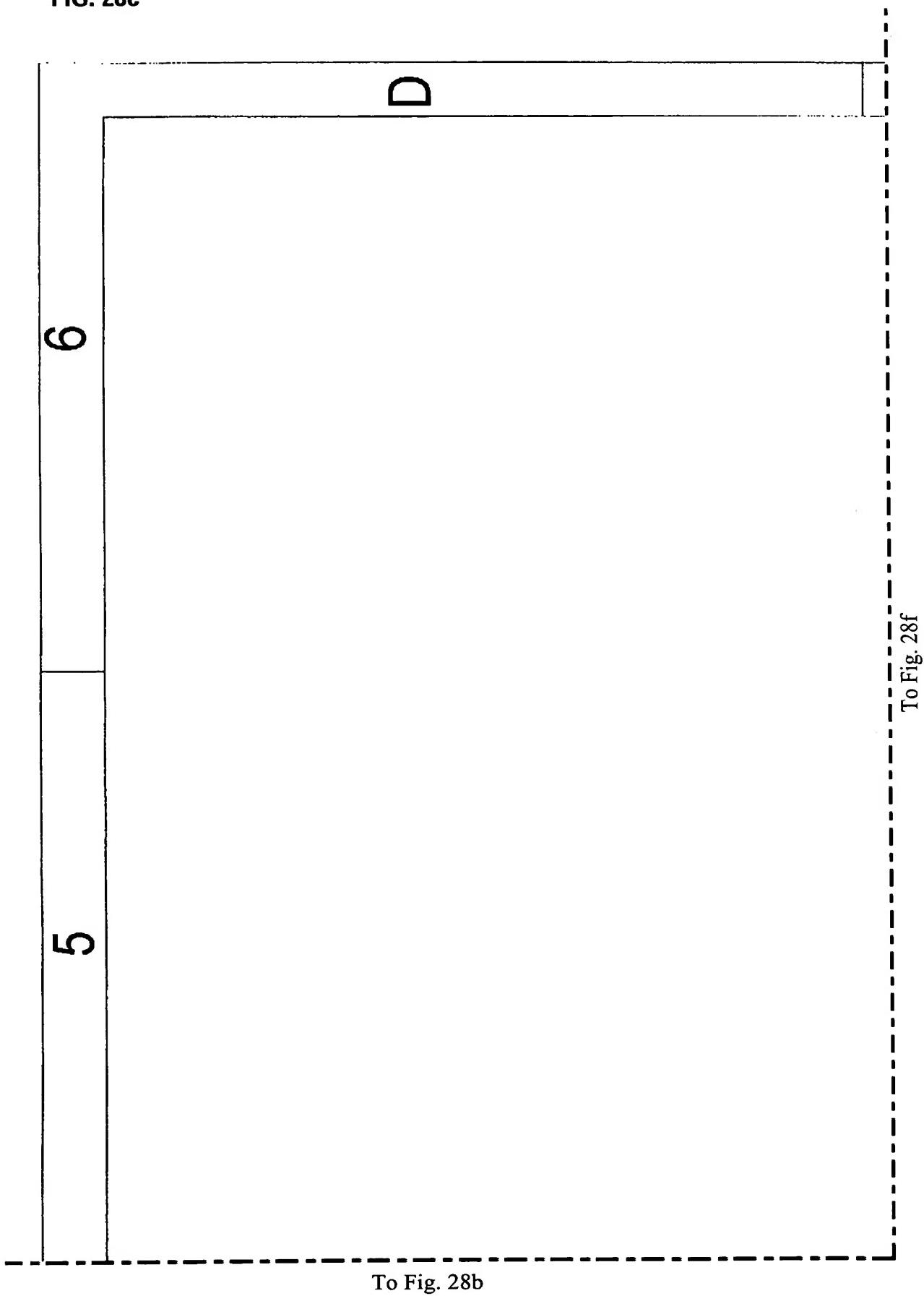
2

1

To Fig. 28d



**FIG. 28c**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 28d**

To Fig. 28e

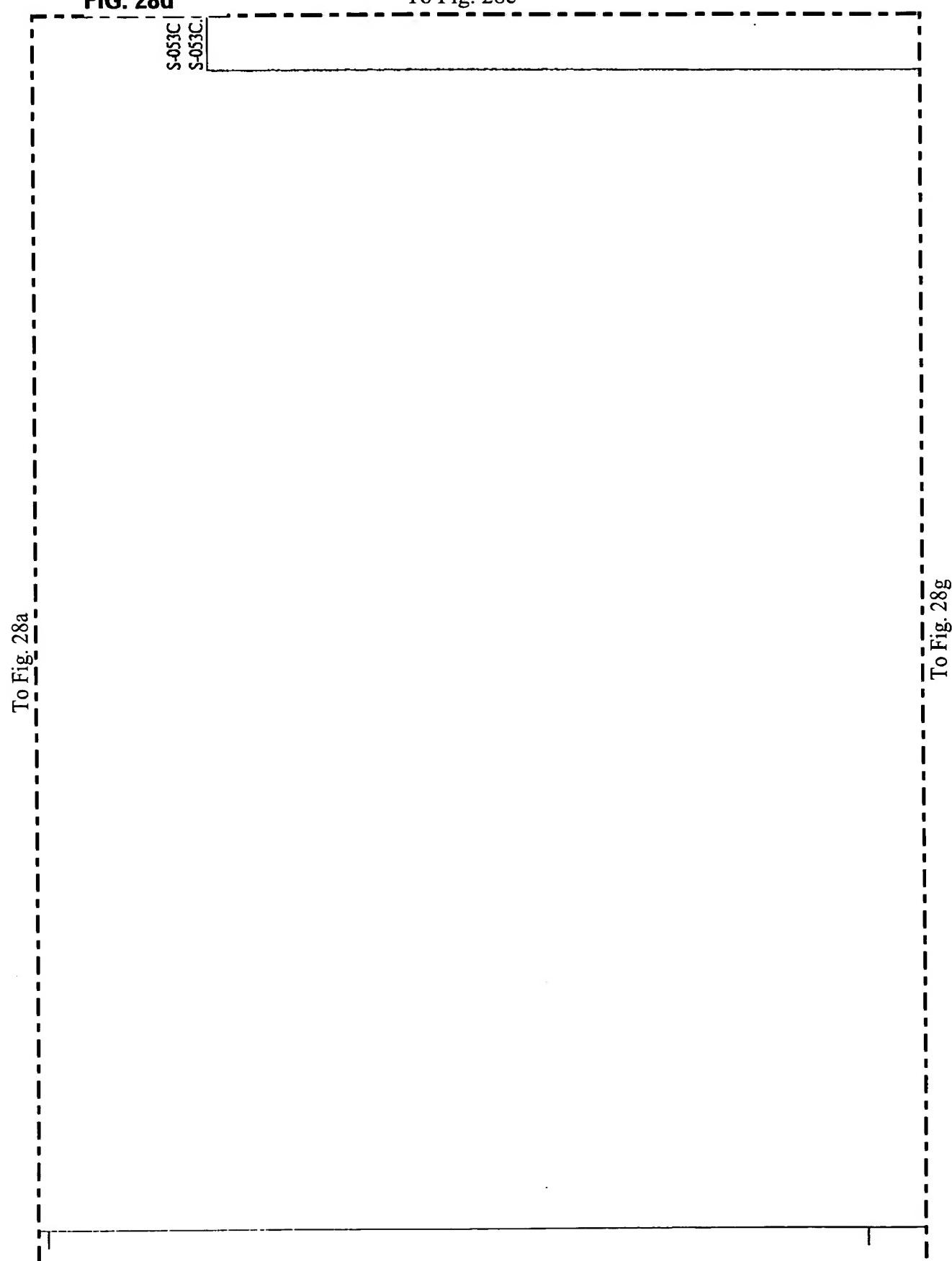
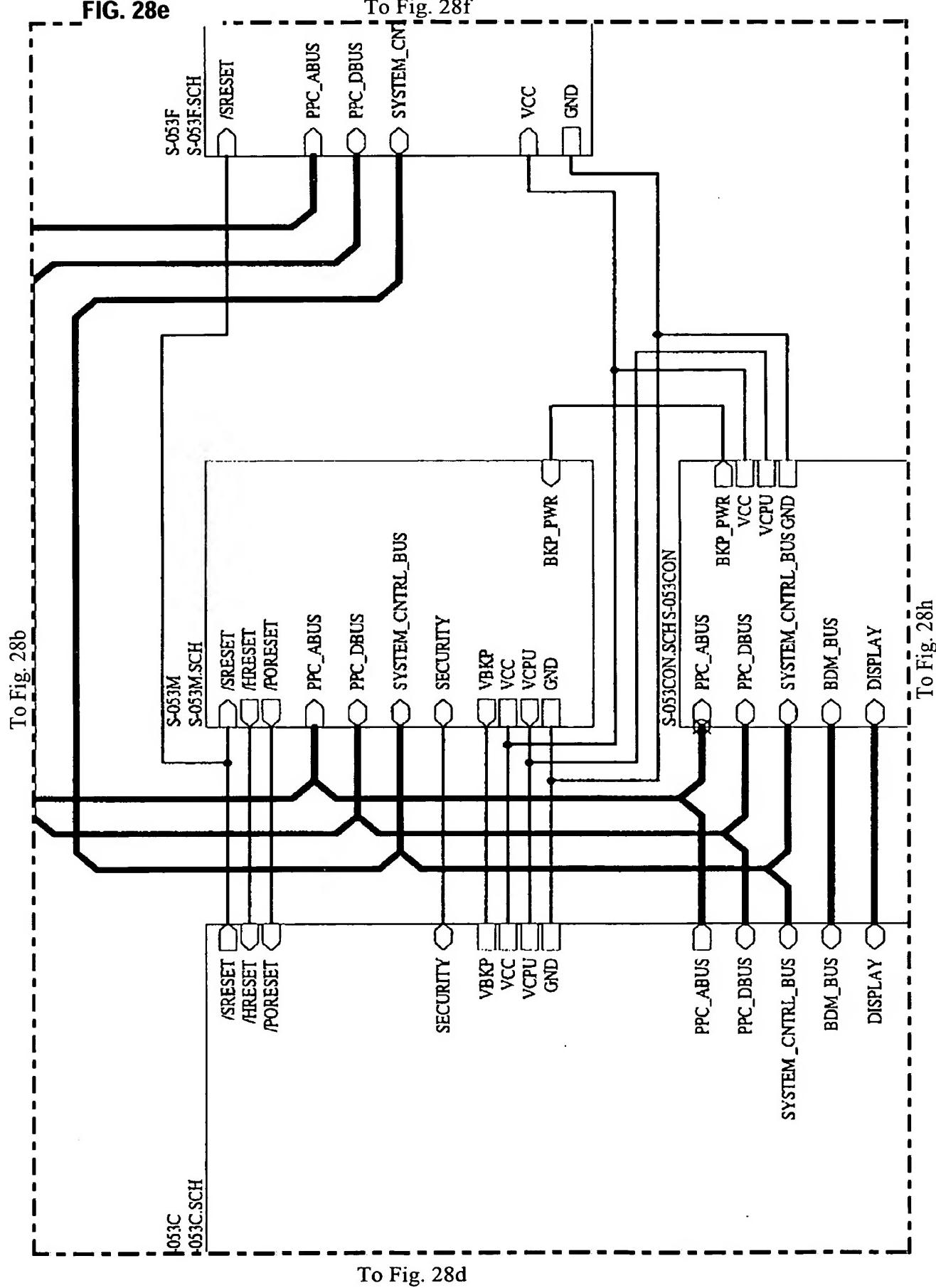


FIG. 28e

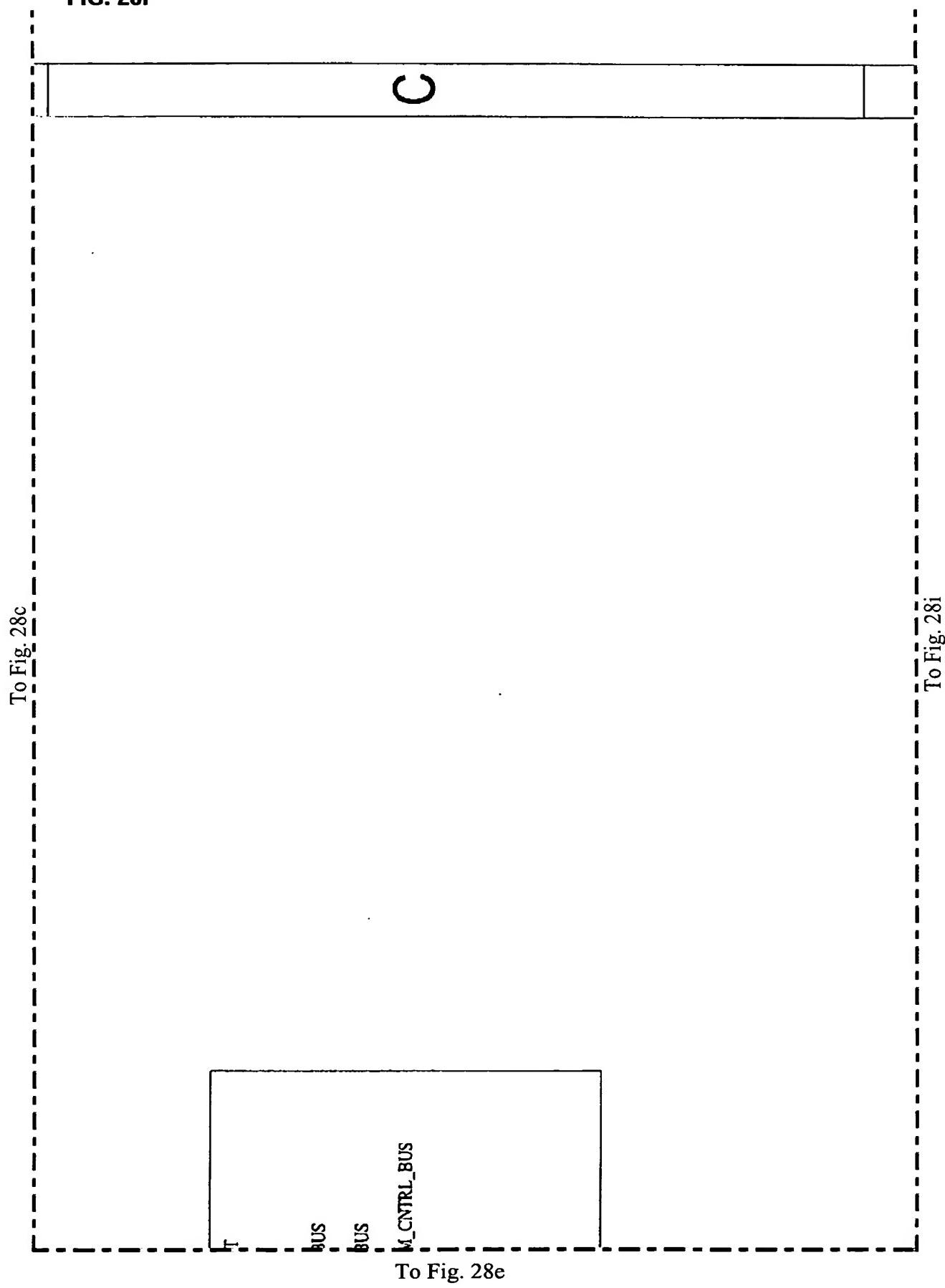


Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 28f**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 28g**

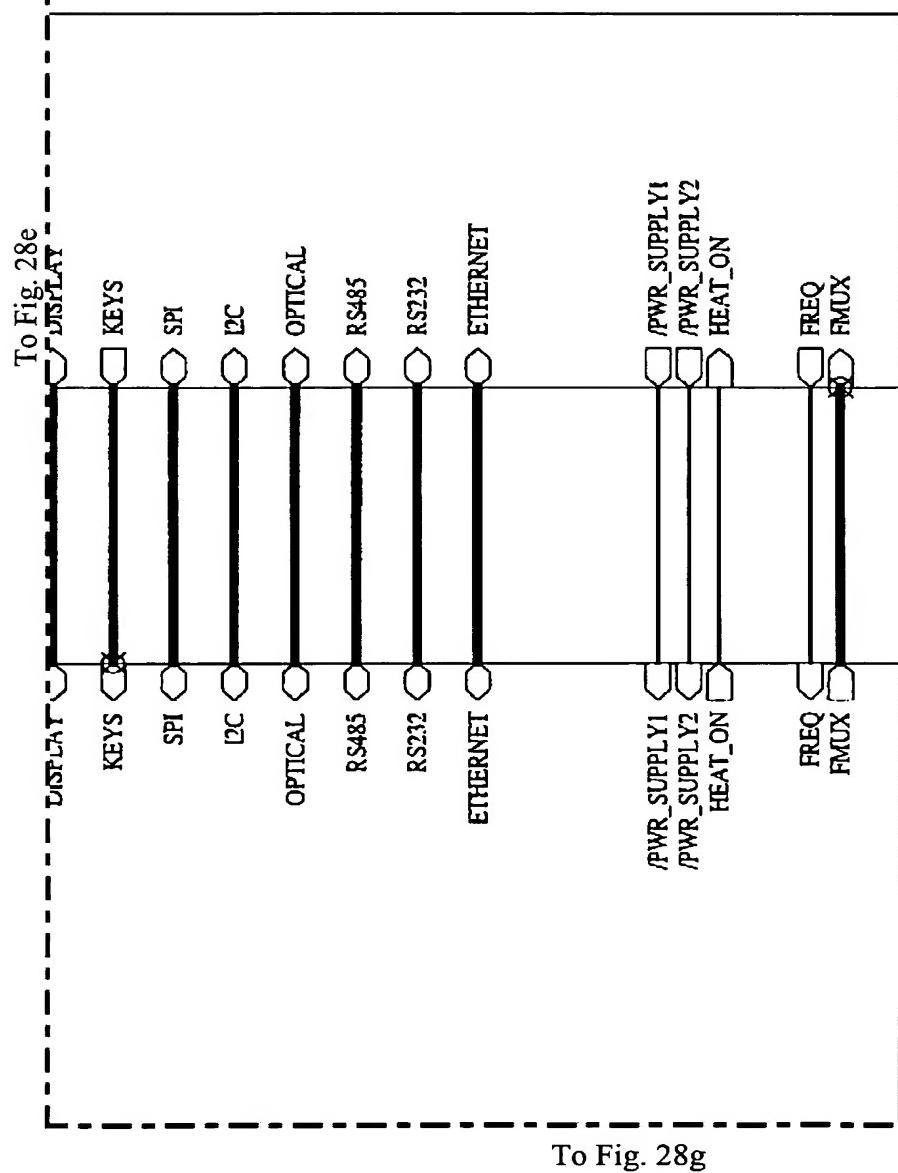
To Fig. 28h

To Fig. 28d

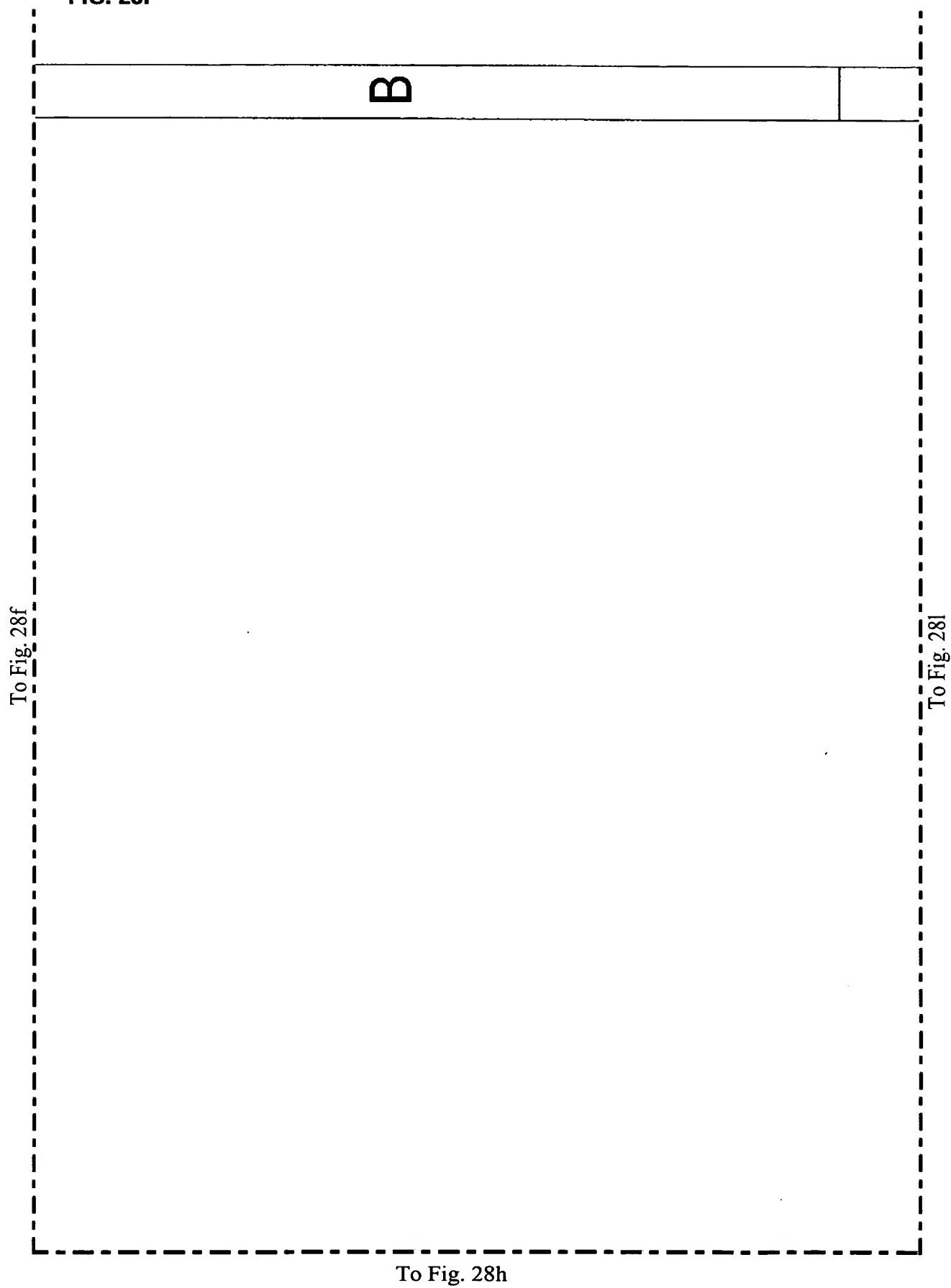
To Fig. 28j

FIG. 28h

To Fig. 28i



**FIG. 28i**



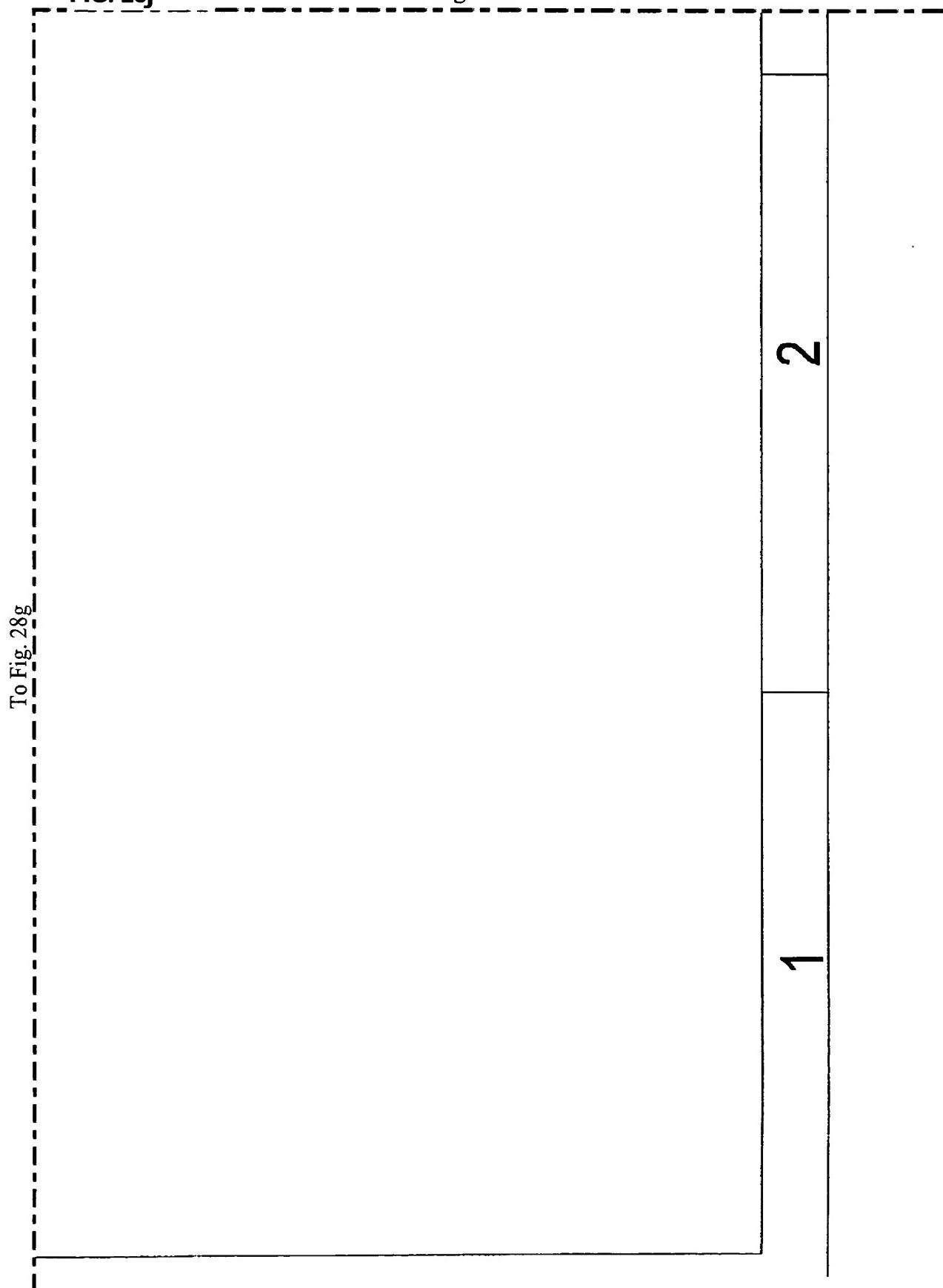
Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

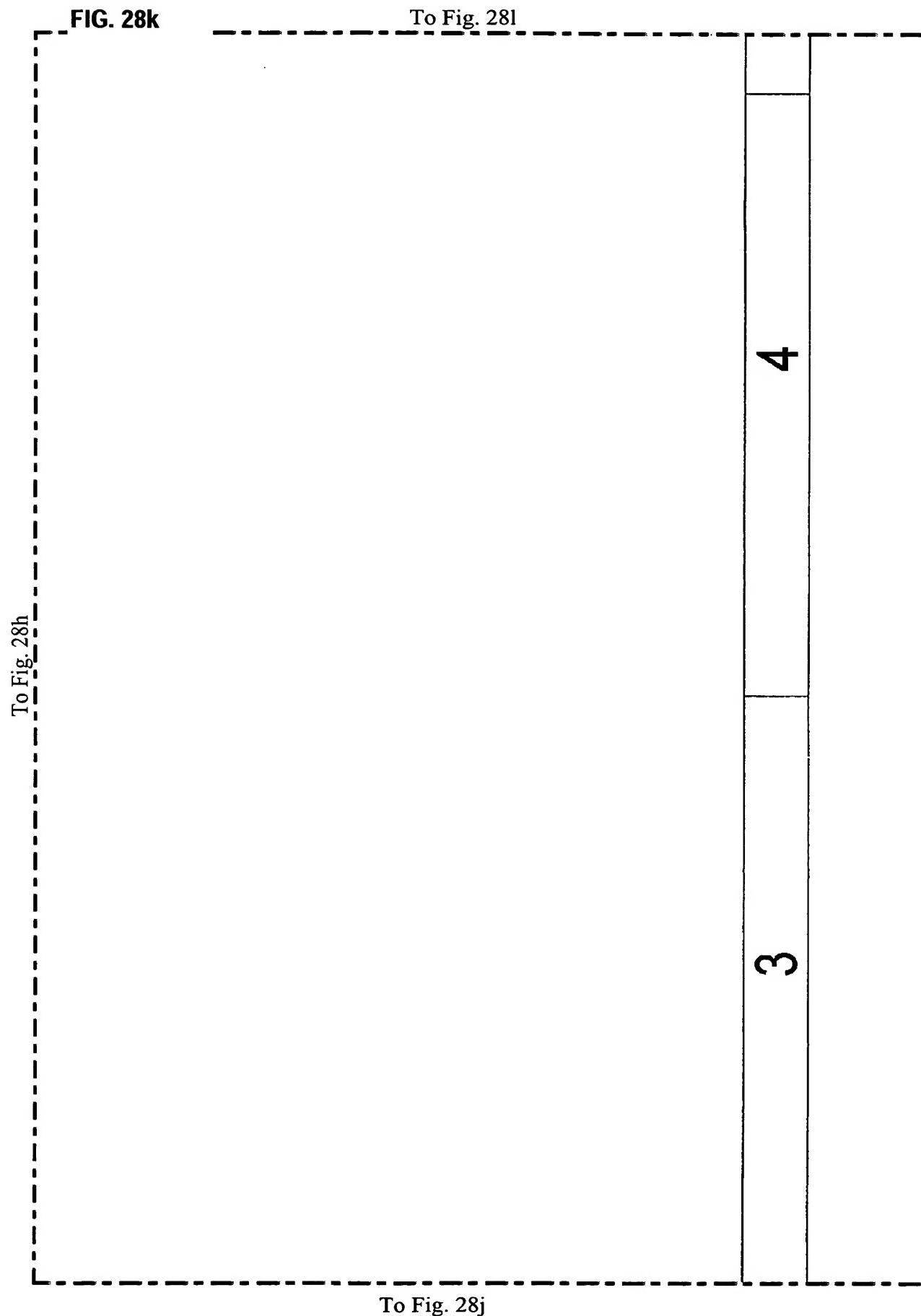
Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

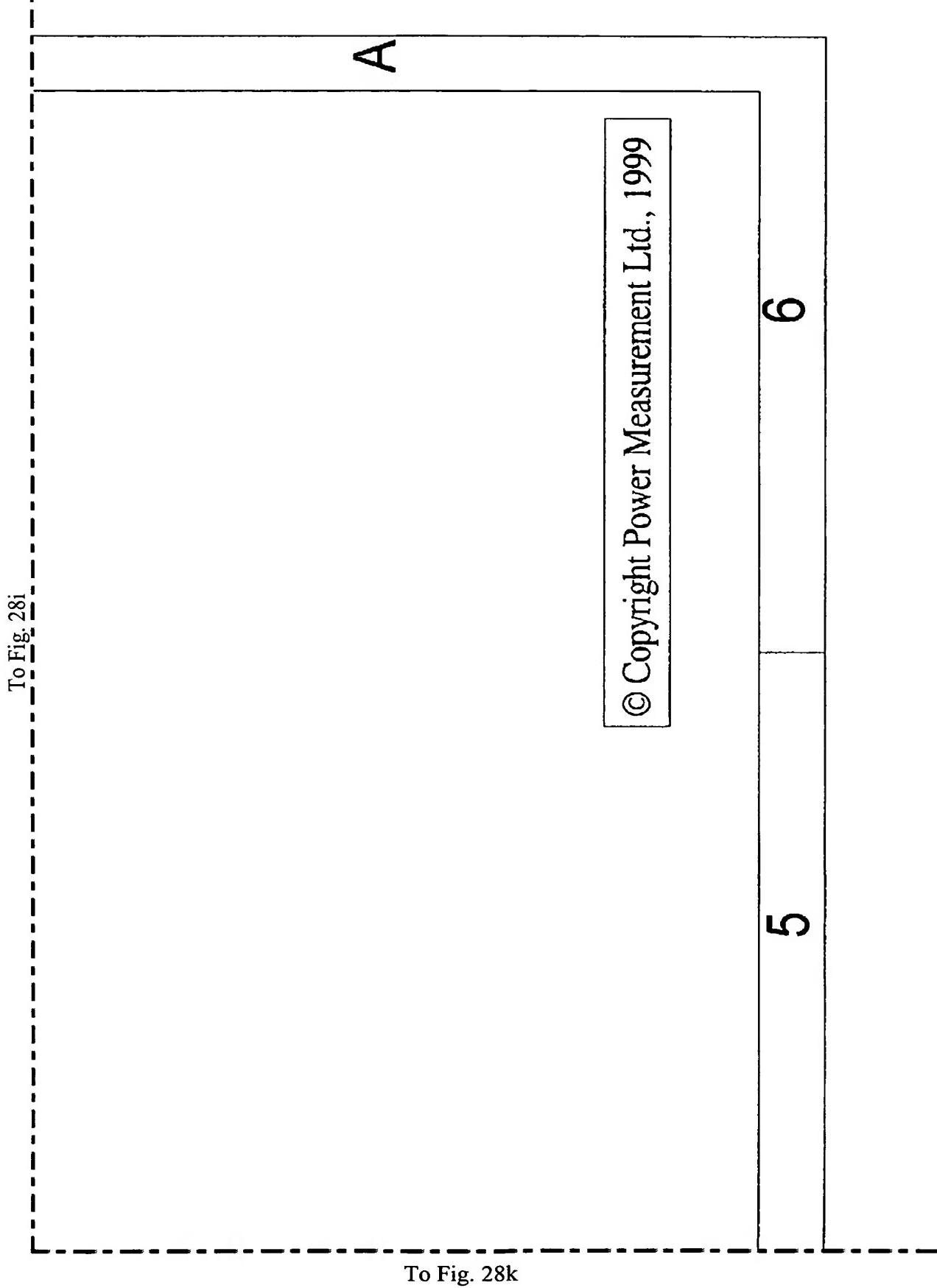
**FIG. 28j**

To Fig. 28k





**FIG. 28I**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

FIG. 29a

To Fig. 29b

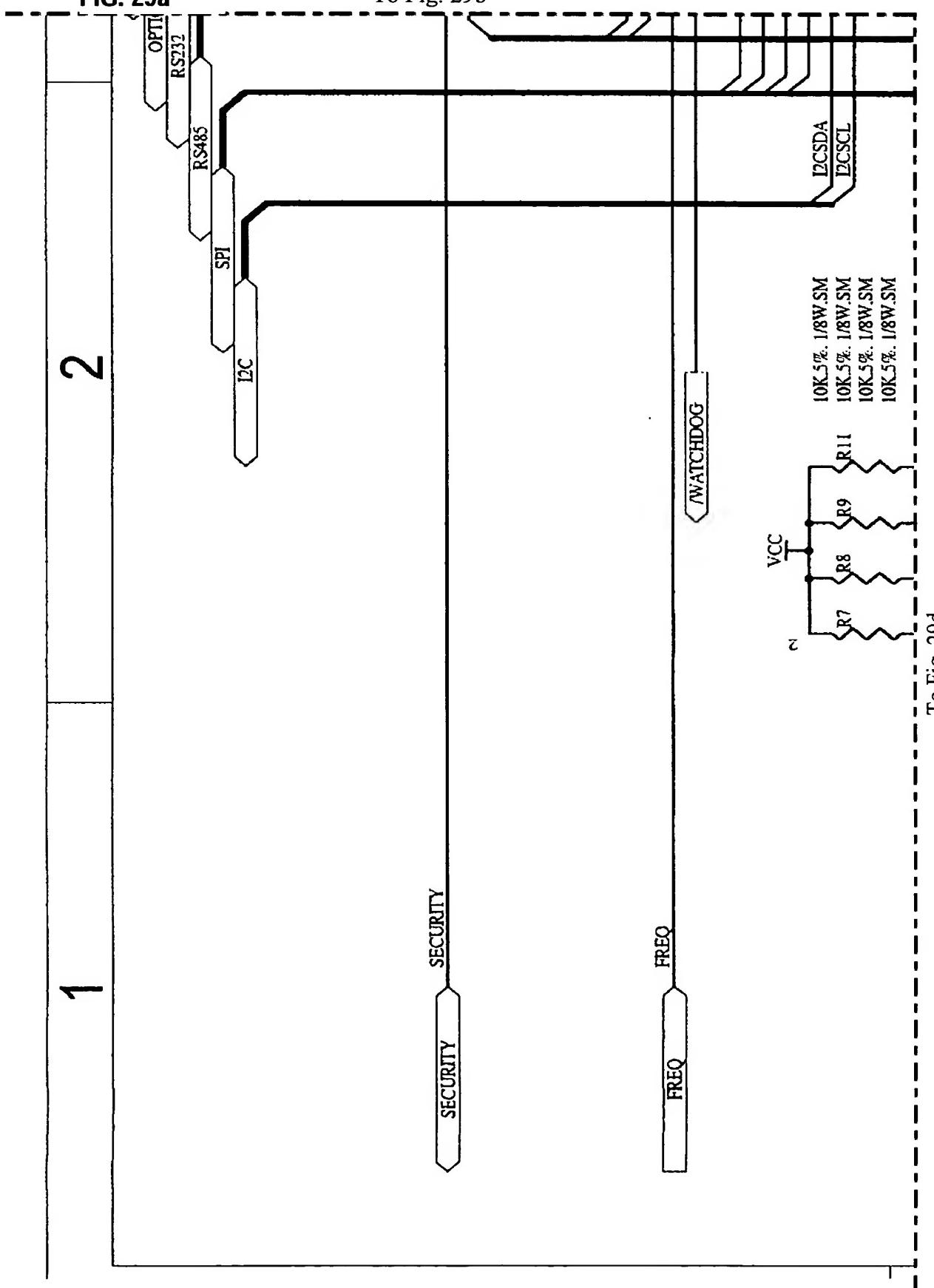


FIG. 29b

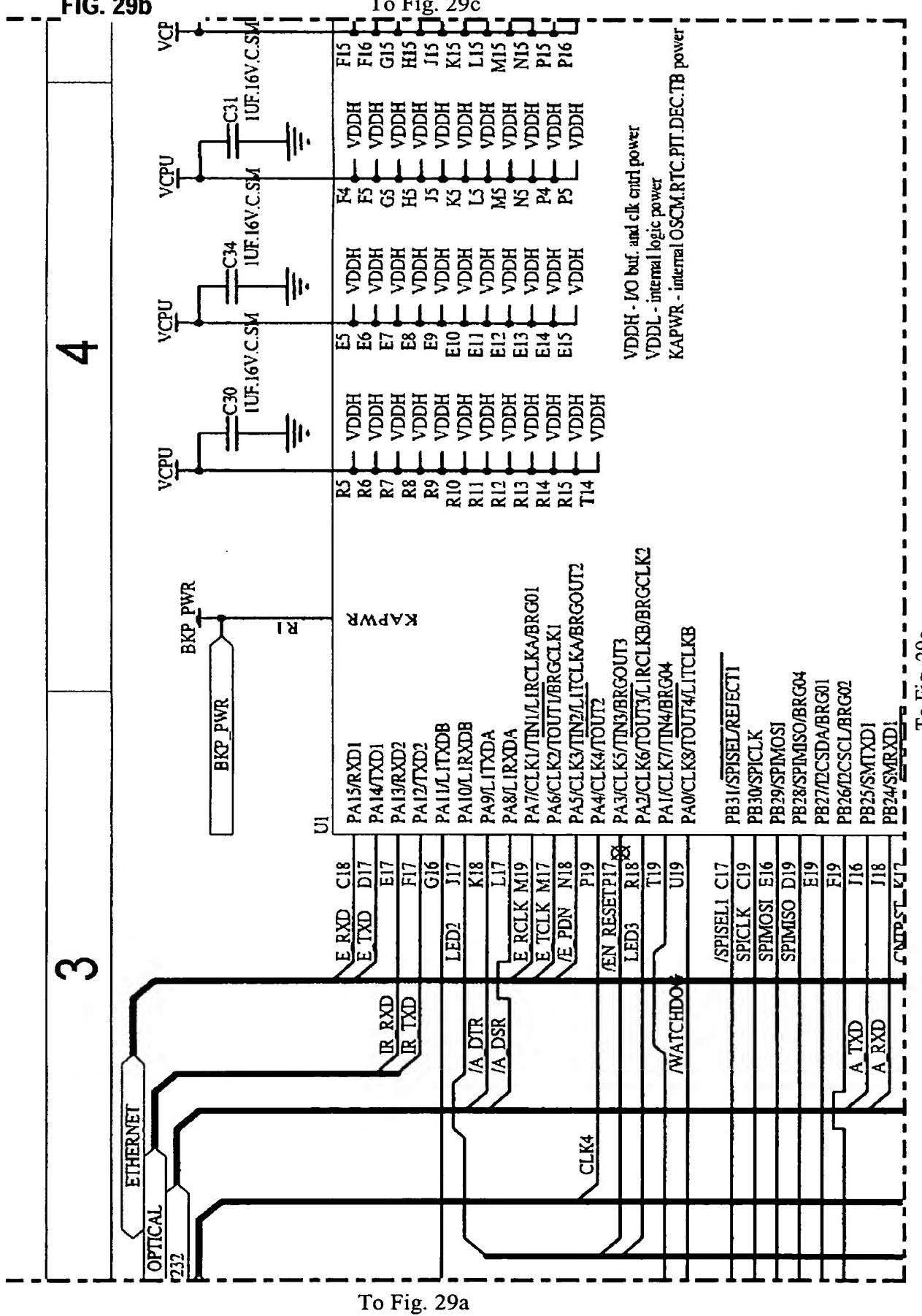
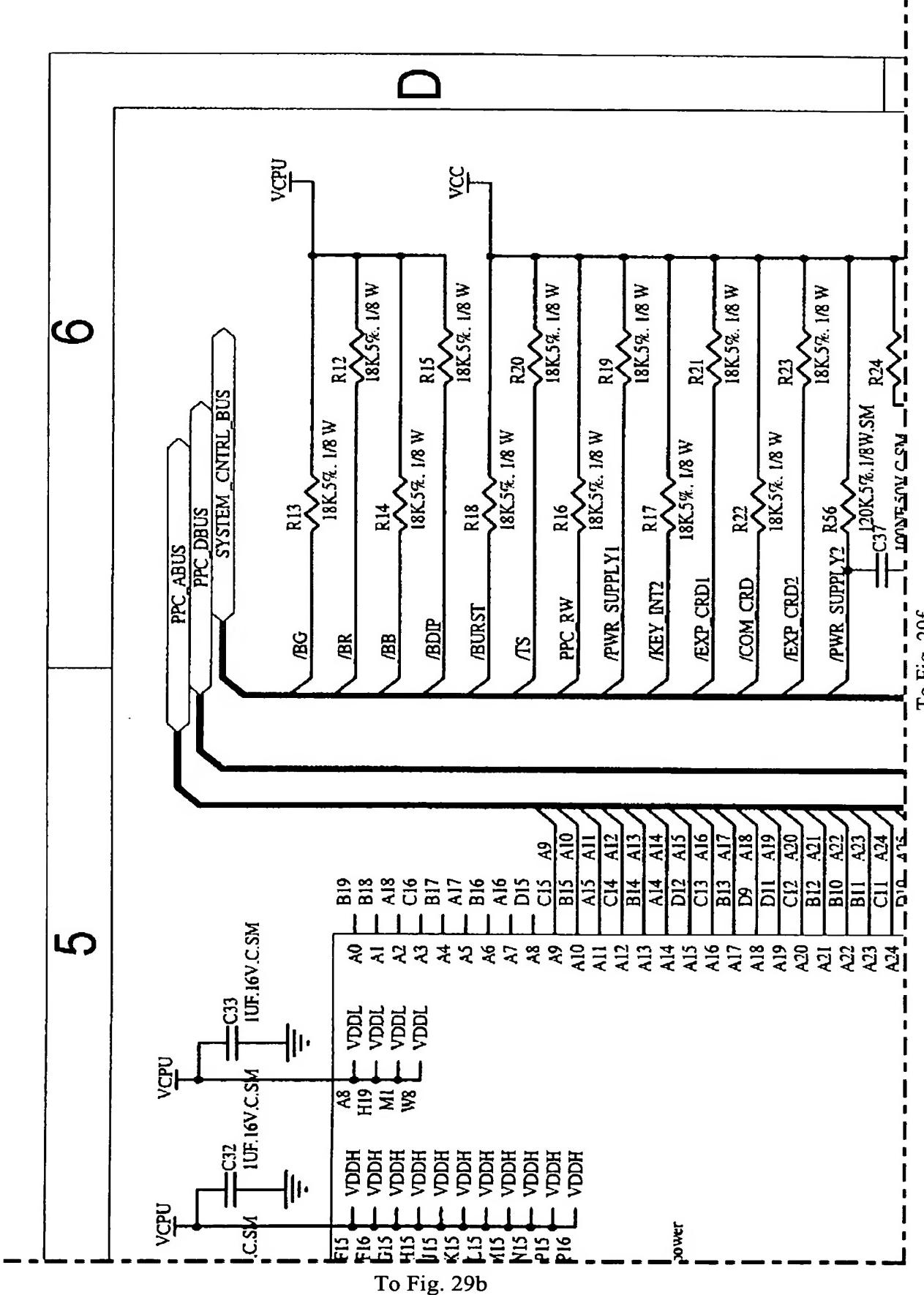


FIG. 29c



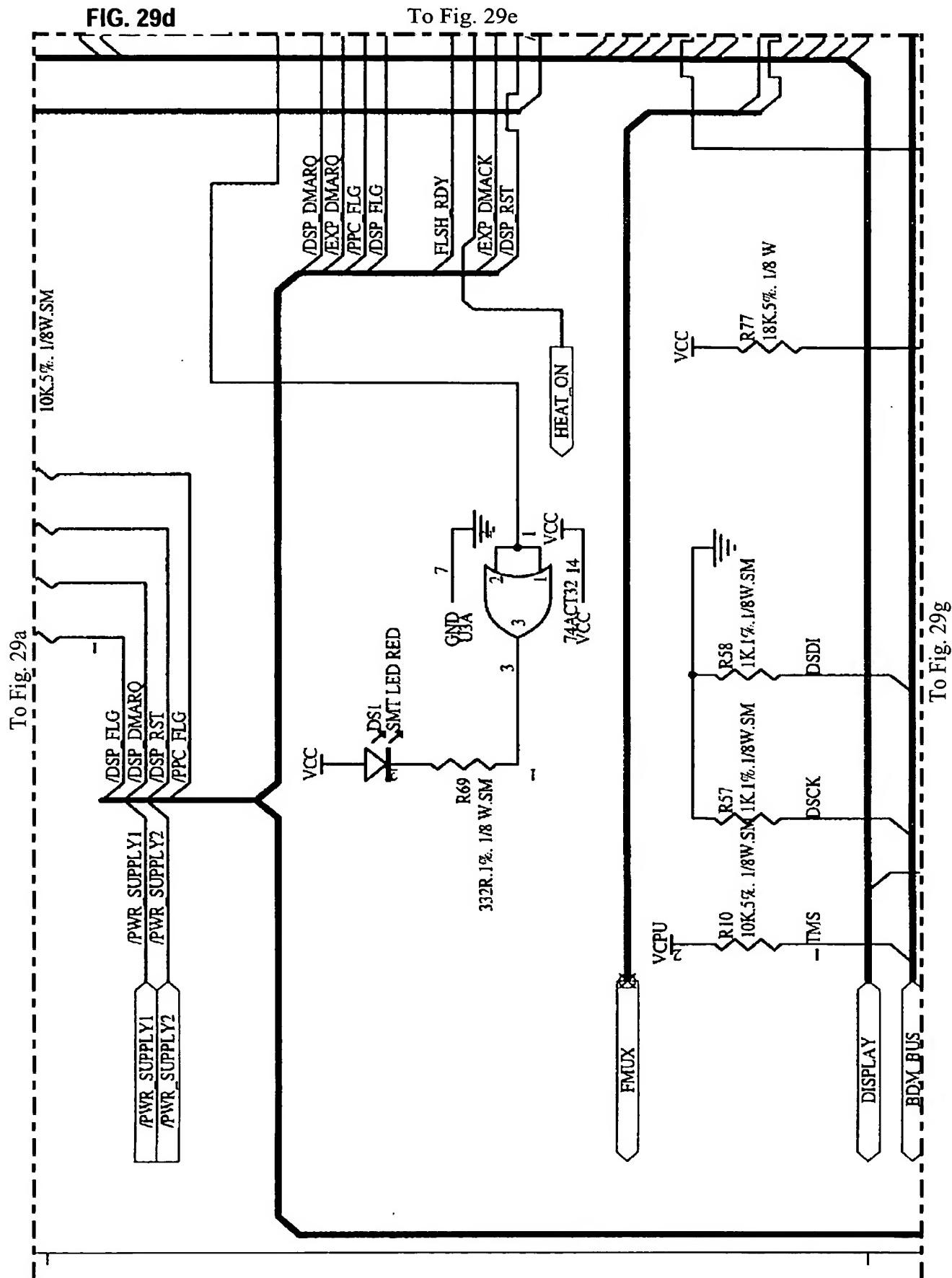
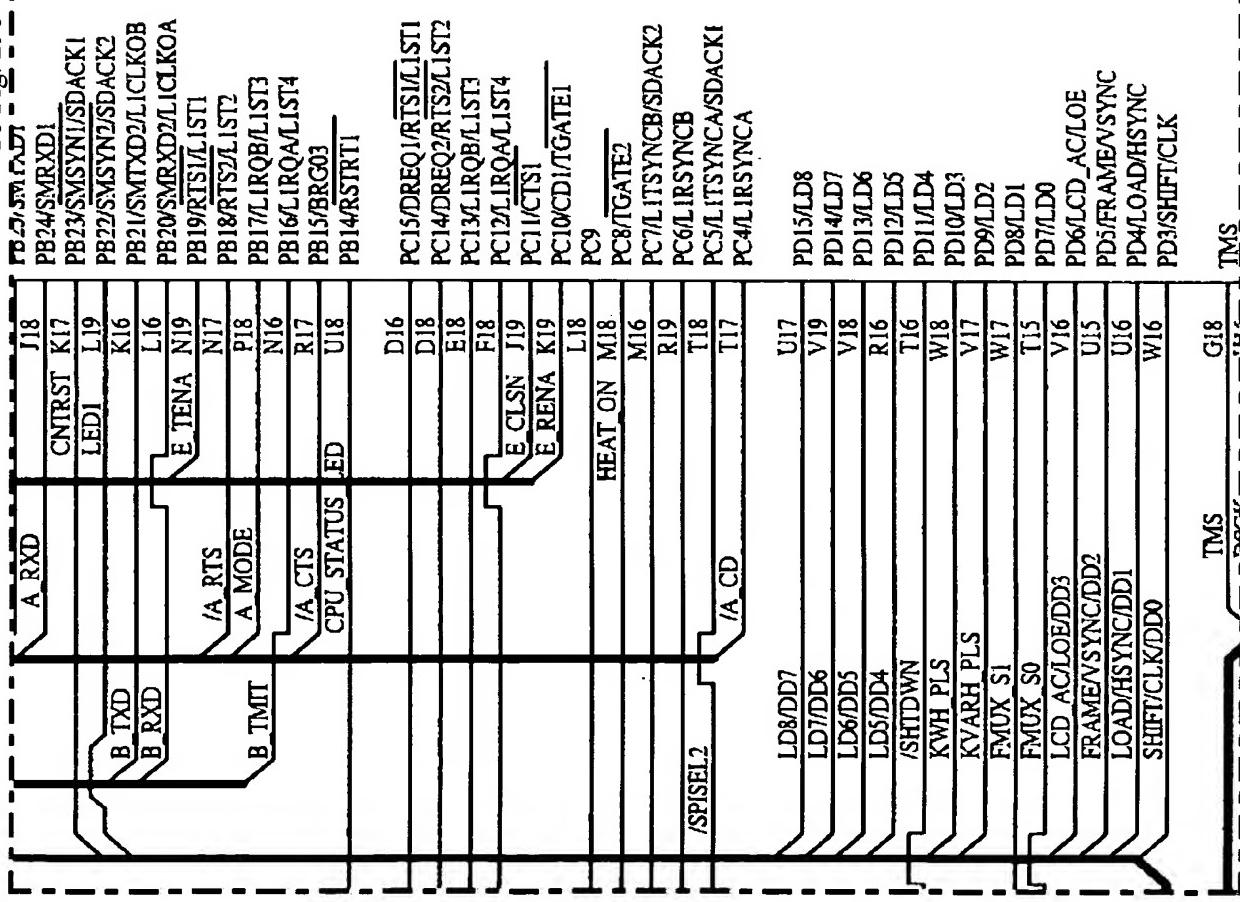


FIG. 29e

To Fig. 29b

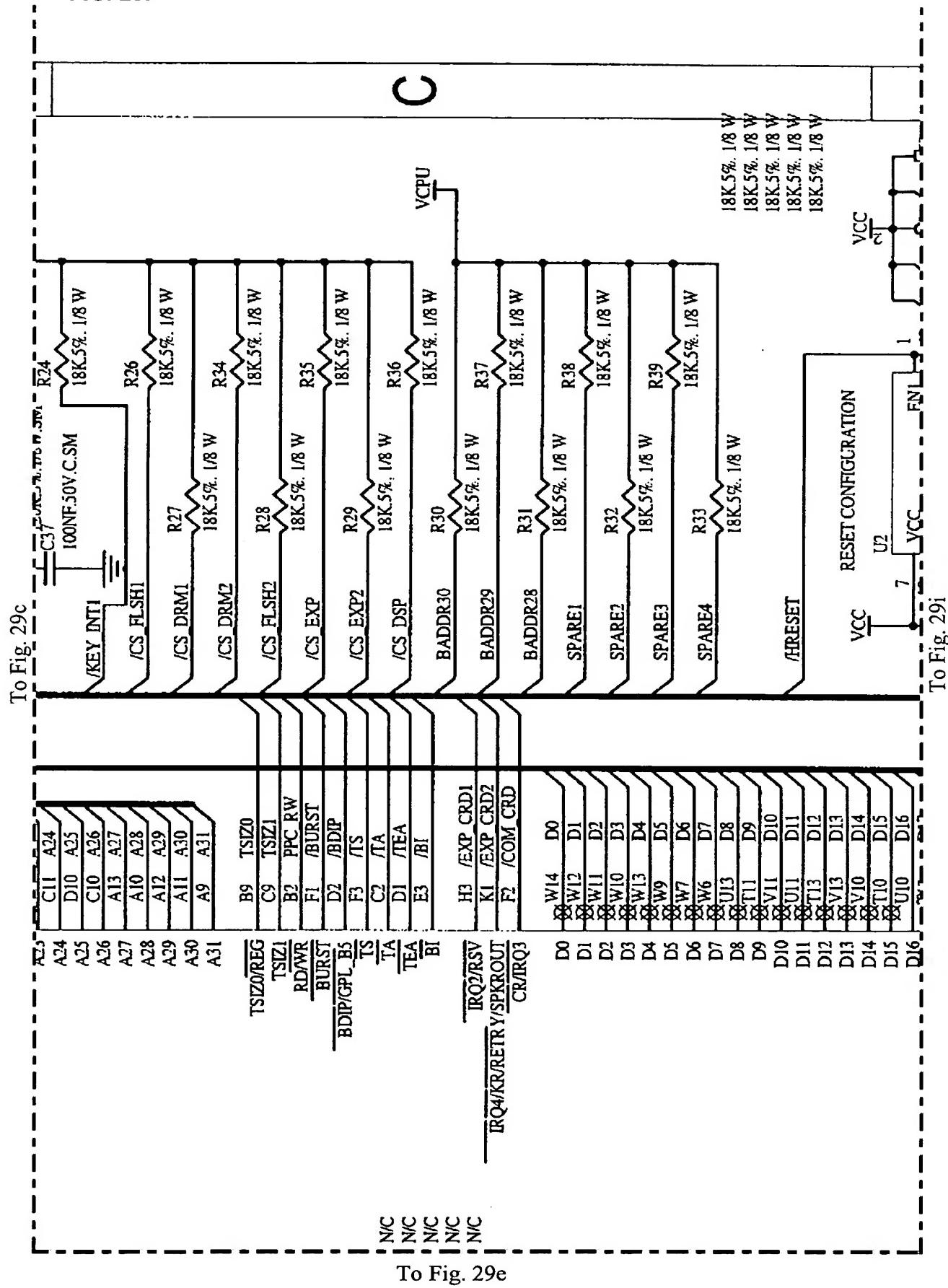


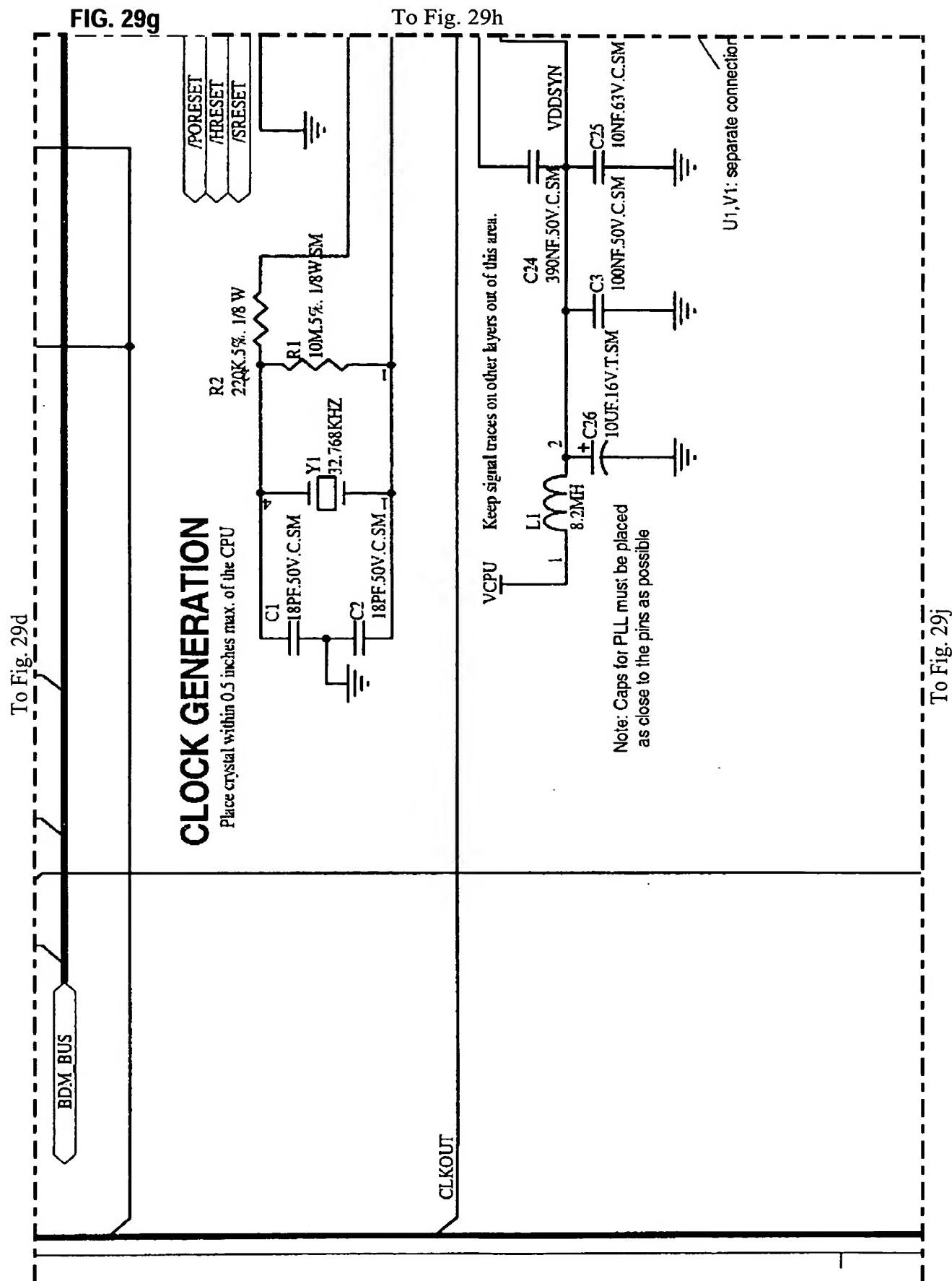
To Fig. 29d

To Fig. 29f

To Fig. 29h

FIG. 29f





**FIG. 29h**

To Fig. 29i

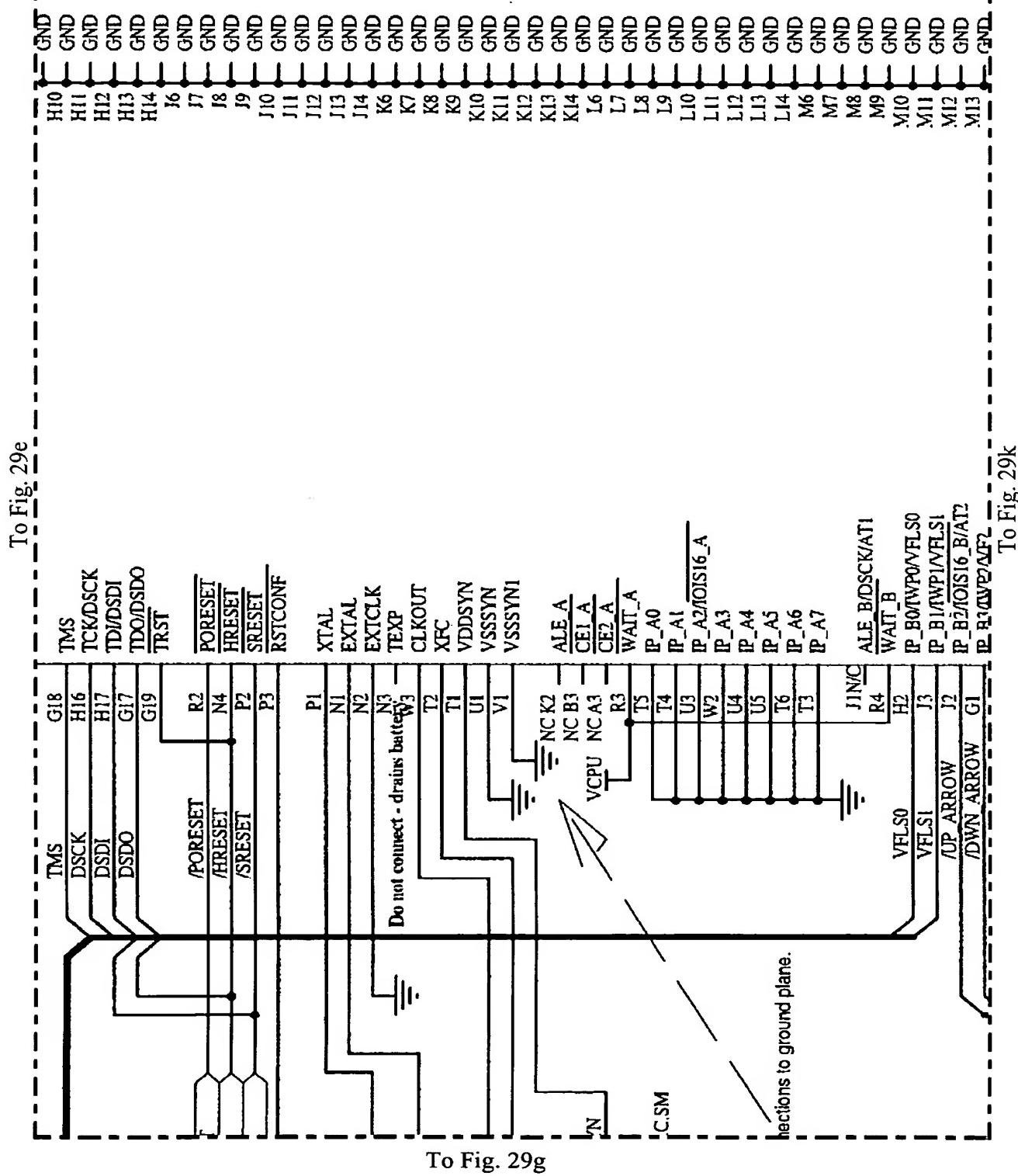
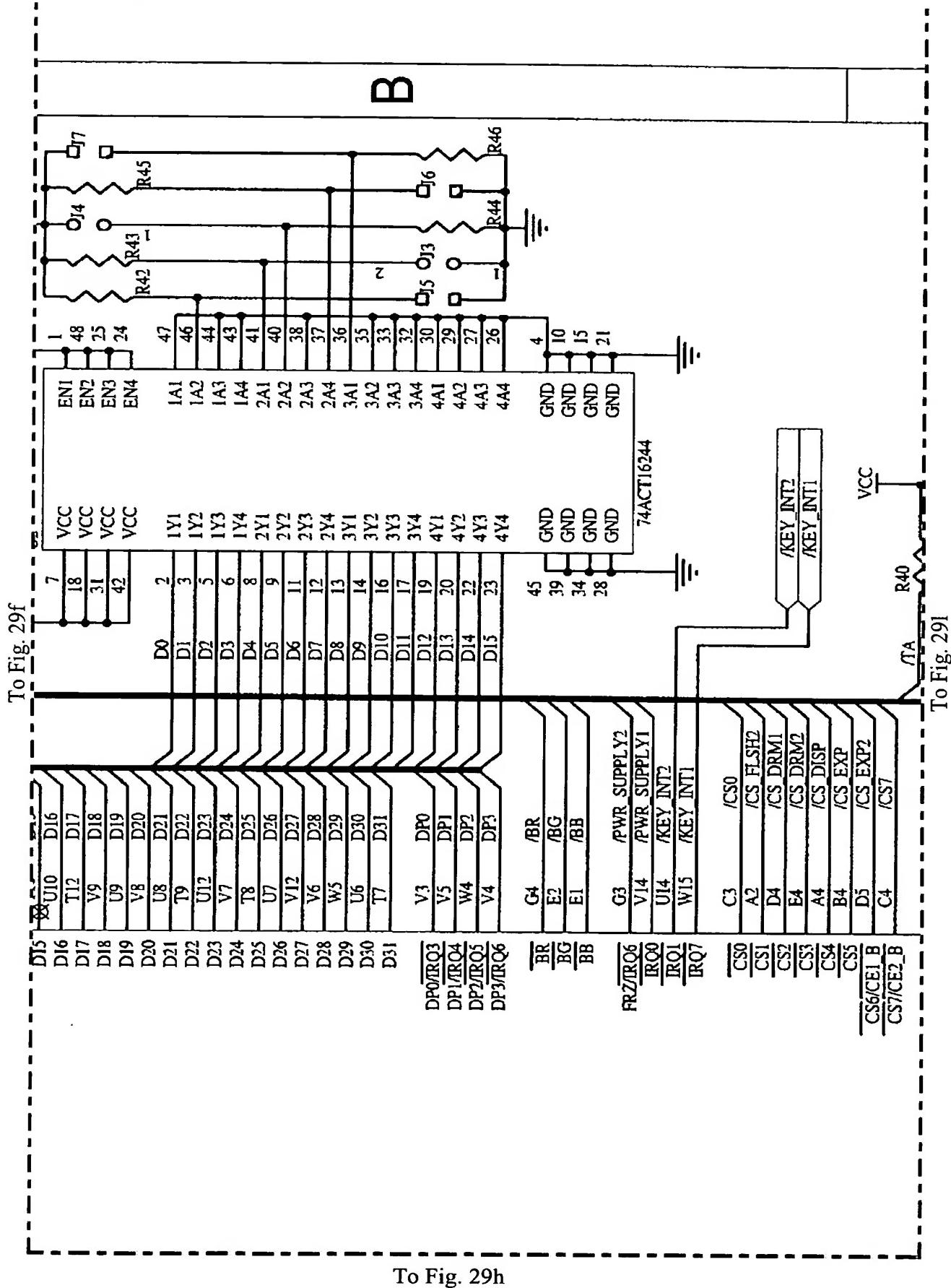


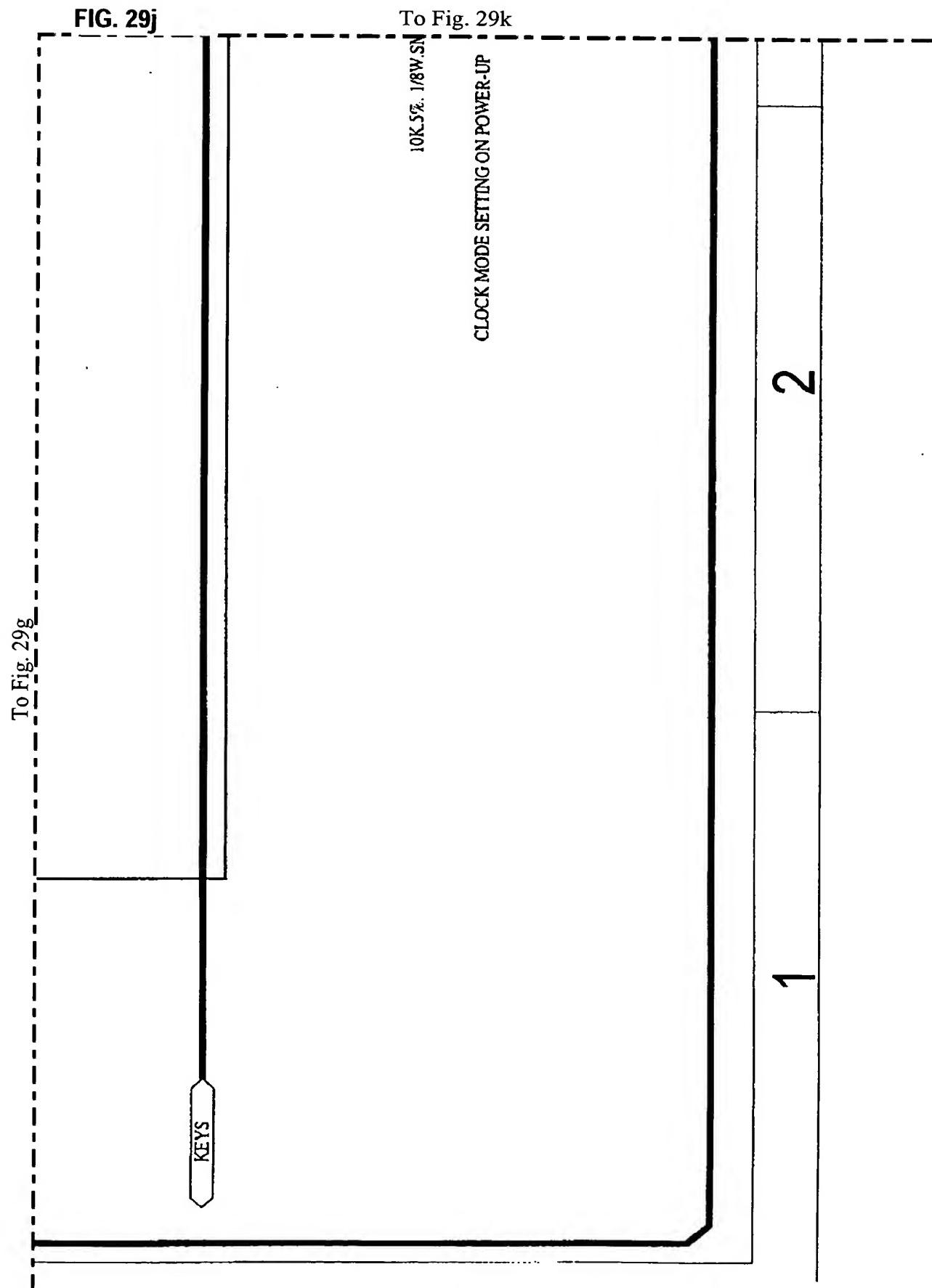
FIG. 29i



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125



**FIG. 29k**

To Fig. 29l

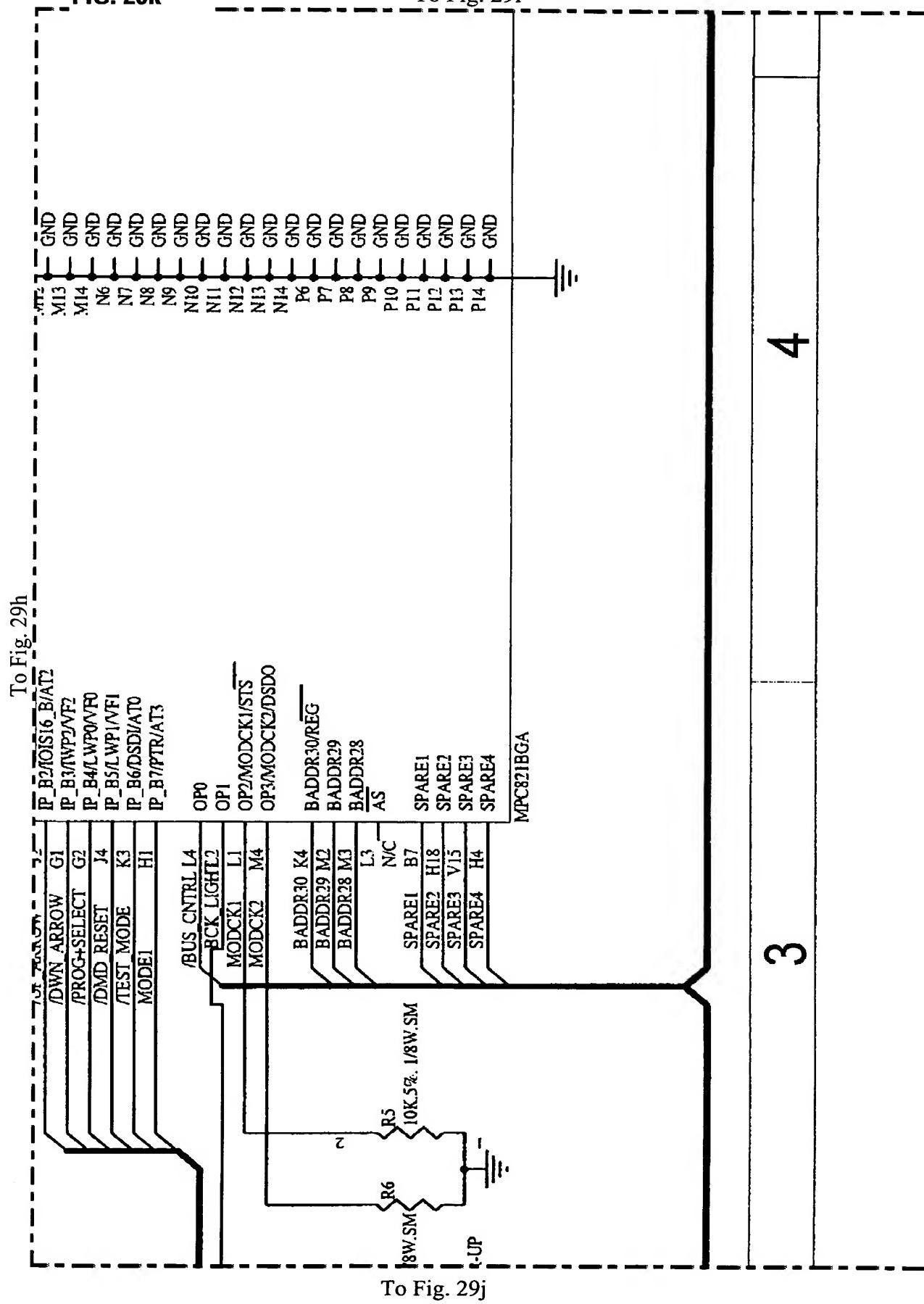
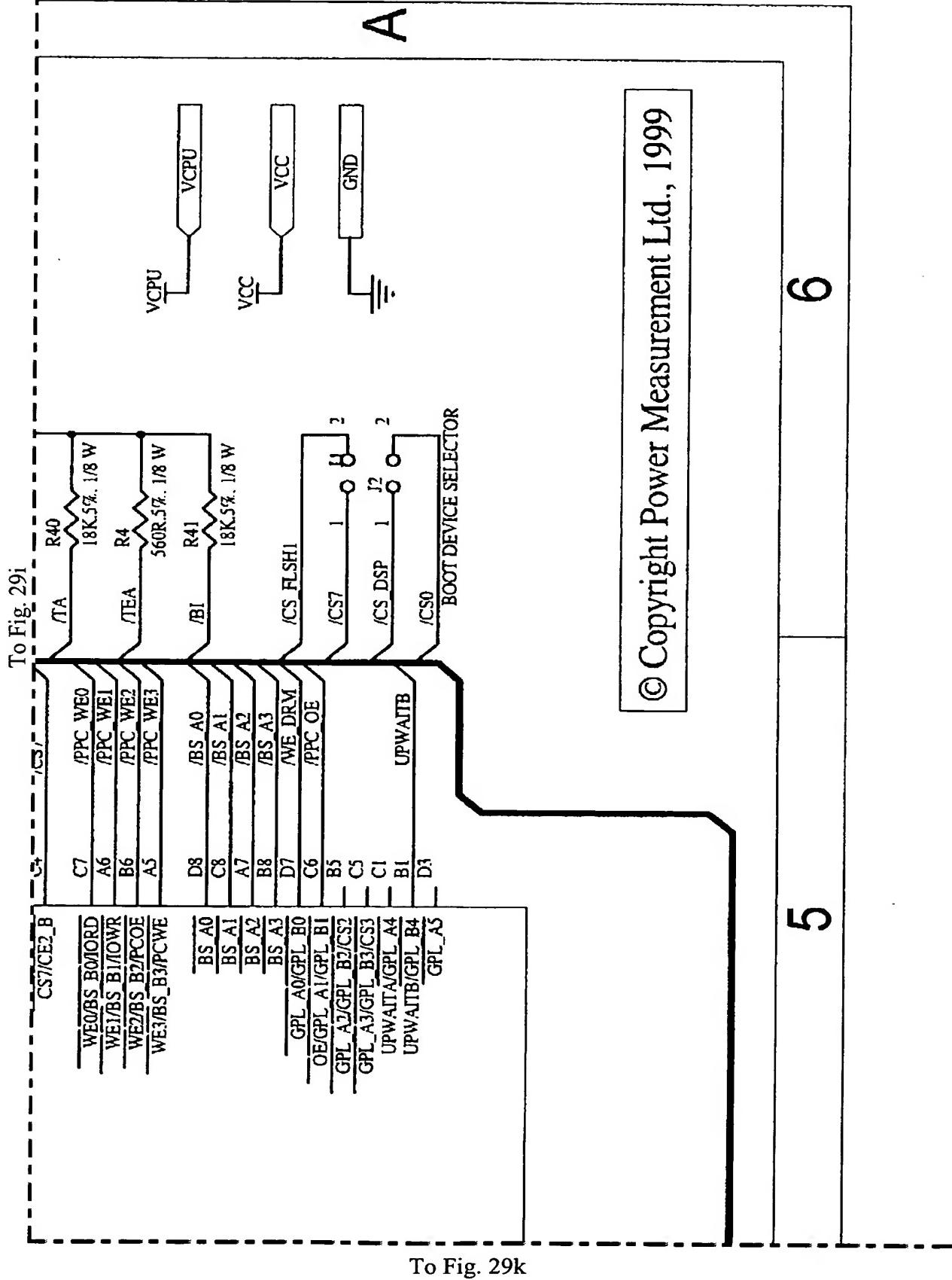
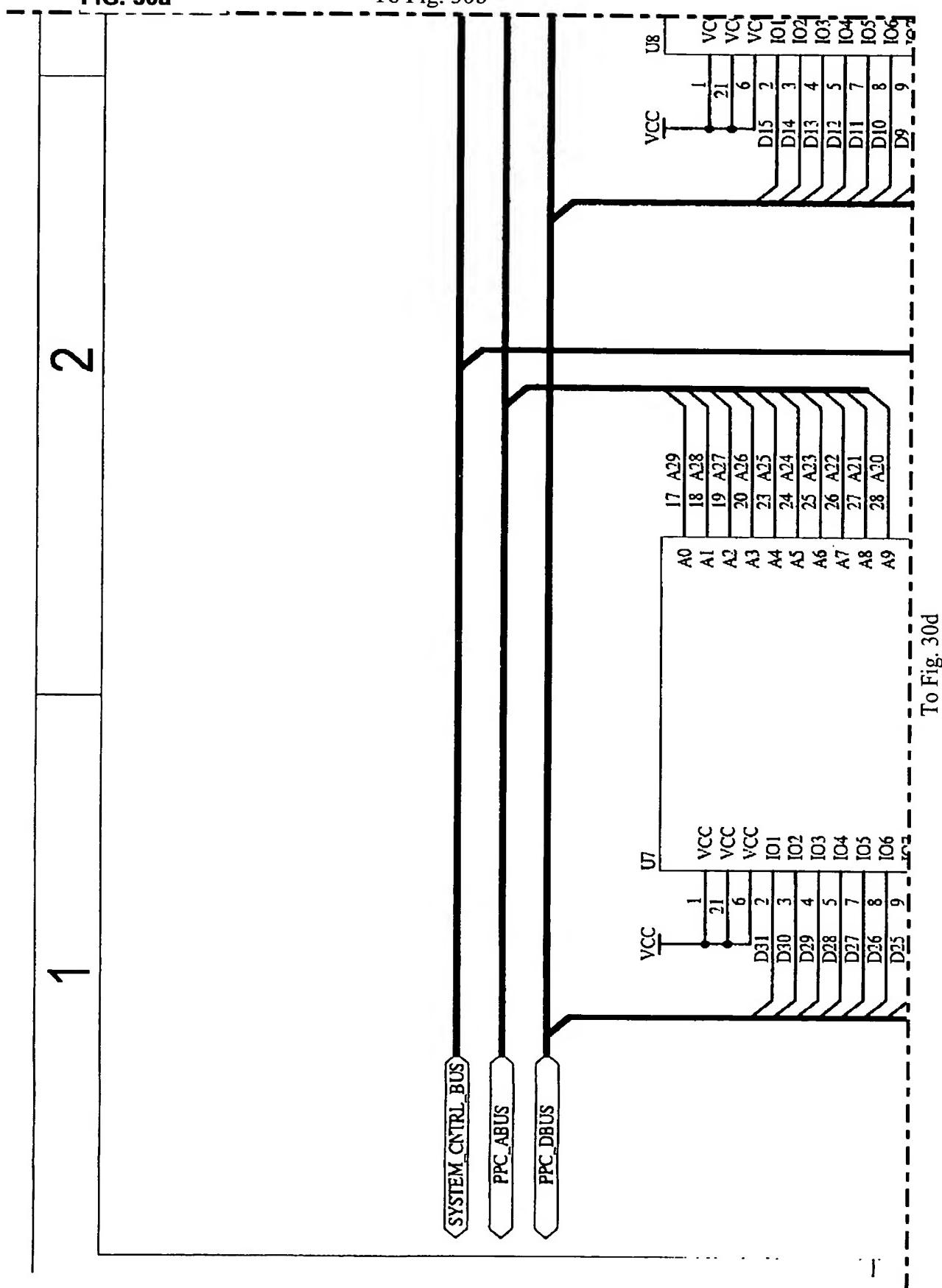


FIG. 29I



**FIG. 30a**

To Fig. 30b



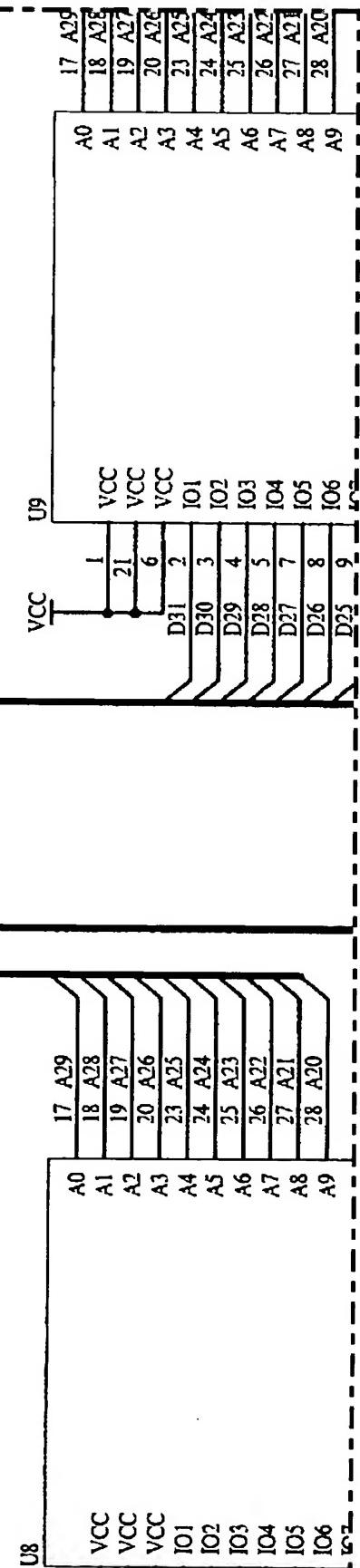
**FIG. 30b**

To Fig. 30c

4

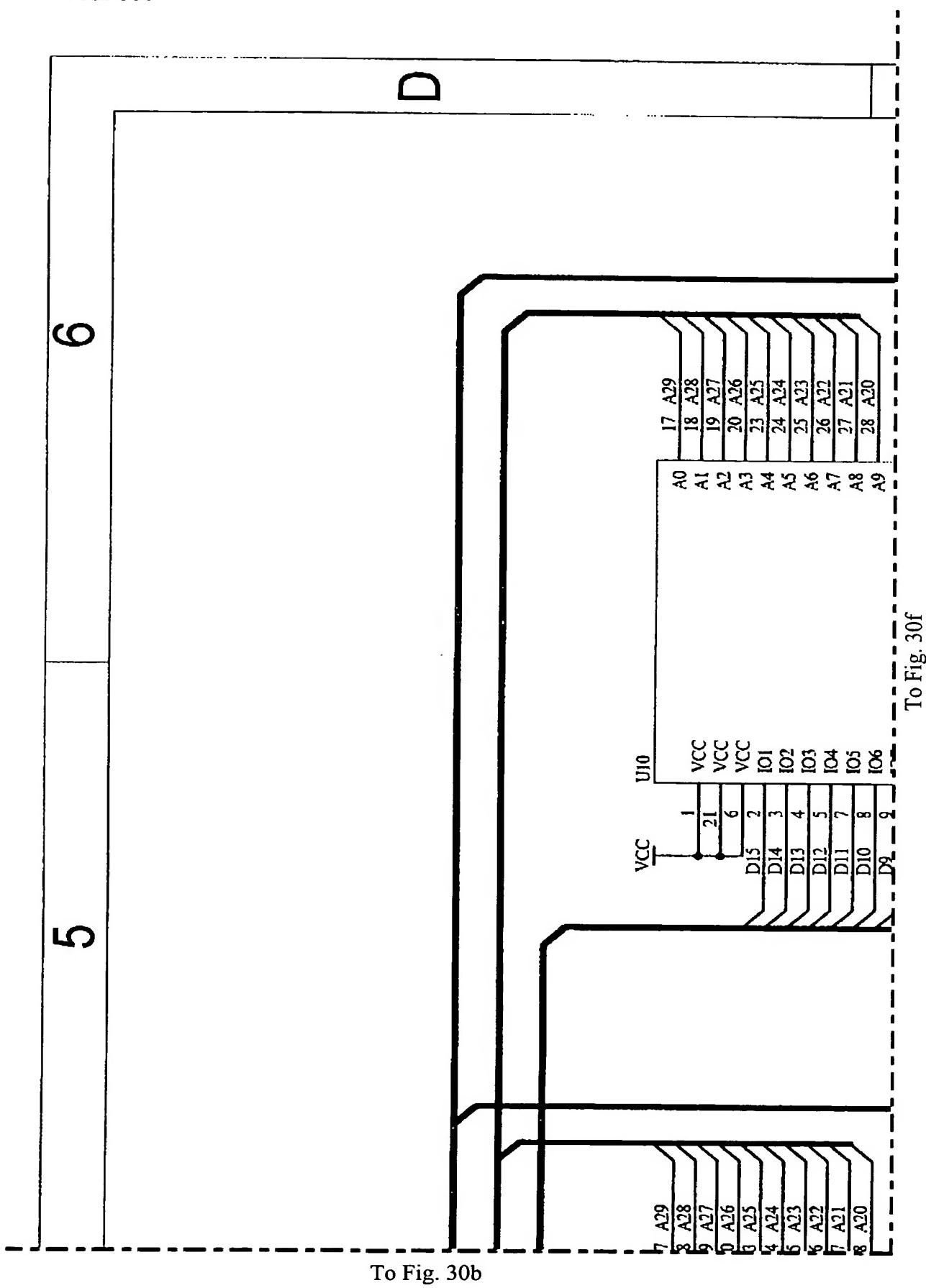
3

To Fig. 30a

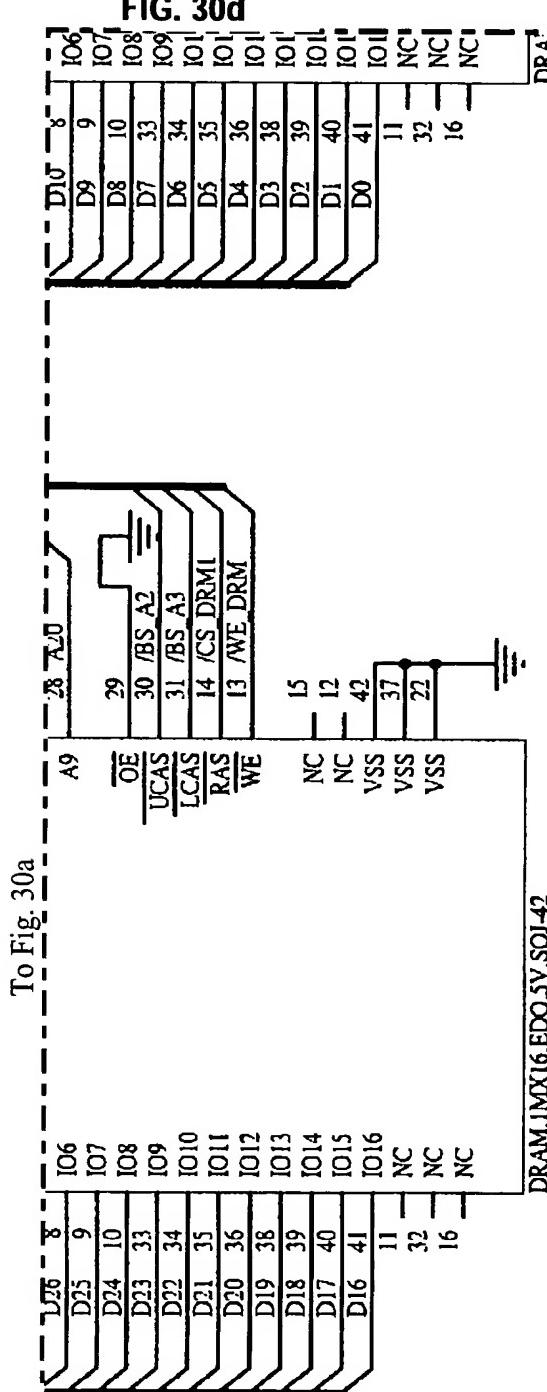


To Fig. 30e

FIG. 30c



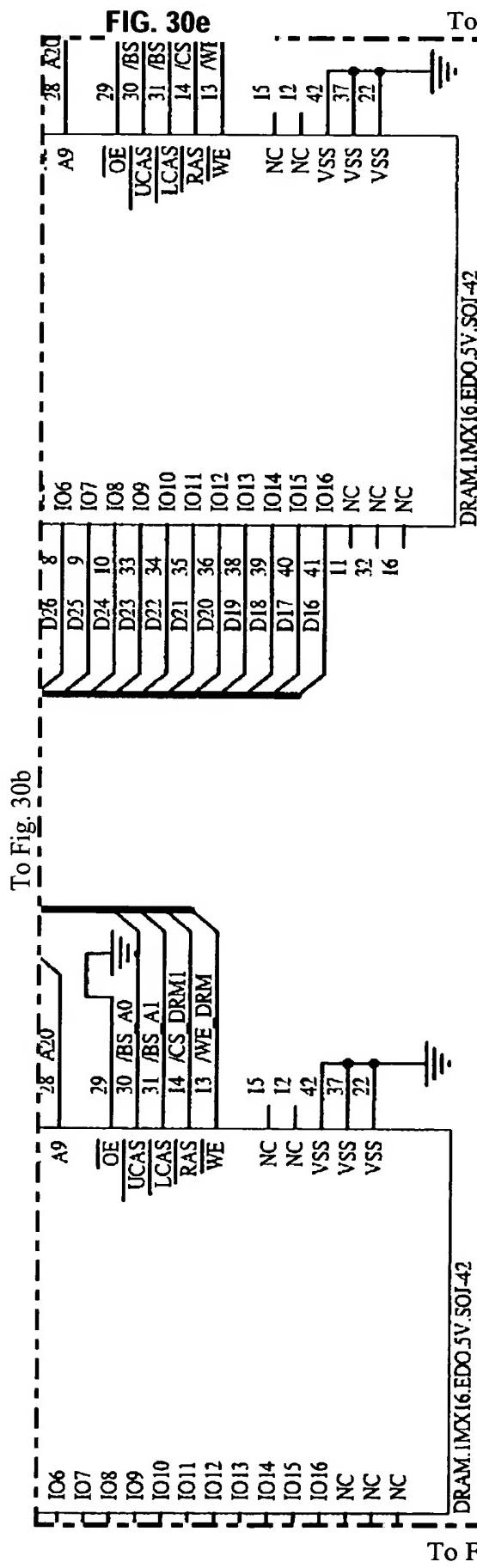
**FIG. 30d**



To Fig. 30e



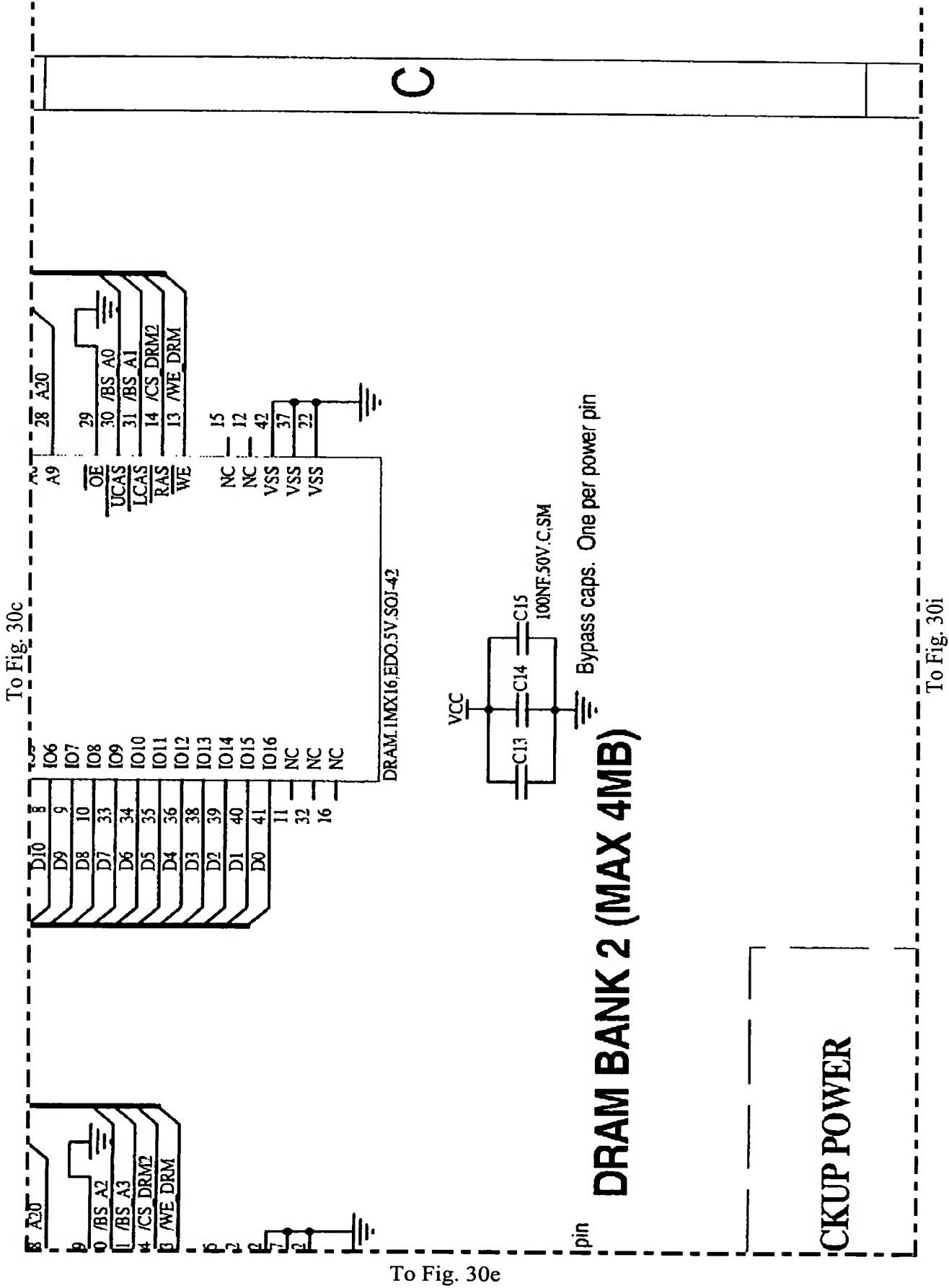
To Fig. 30g

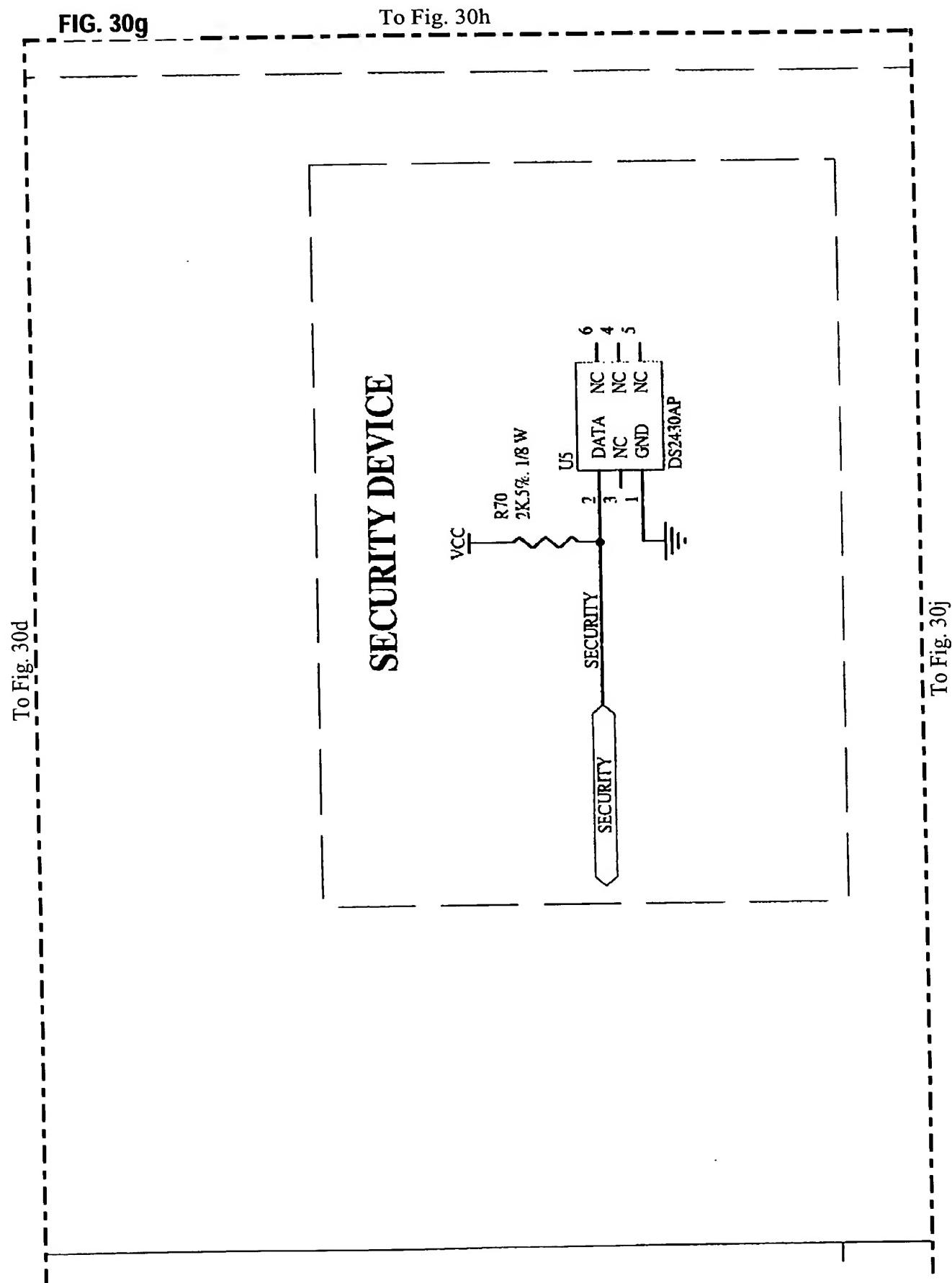


MAIN PROCESSOR'S RESETS AND BACK

To Fig. 30h

FIG. 30f

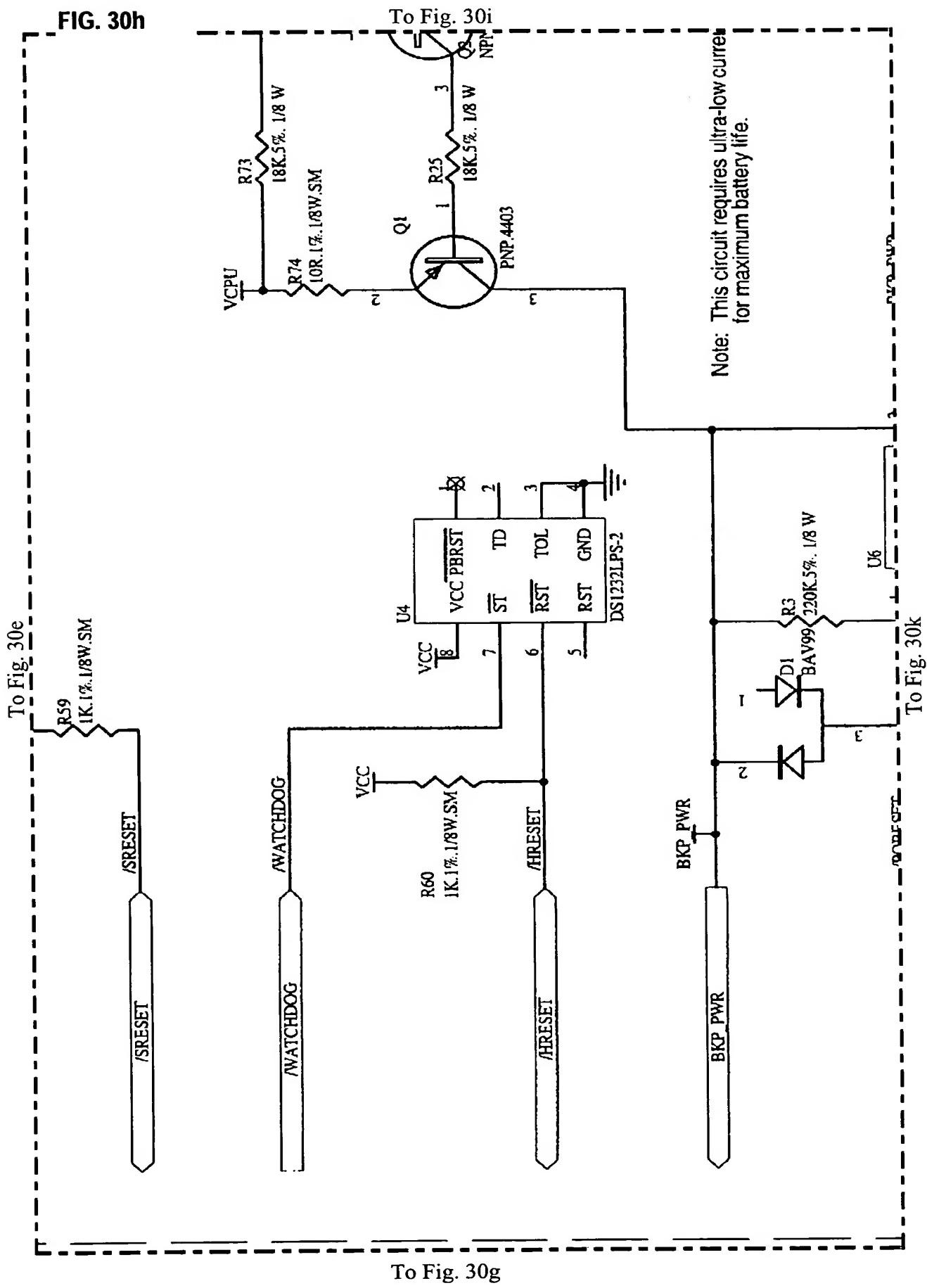




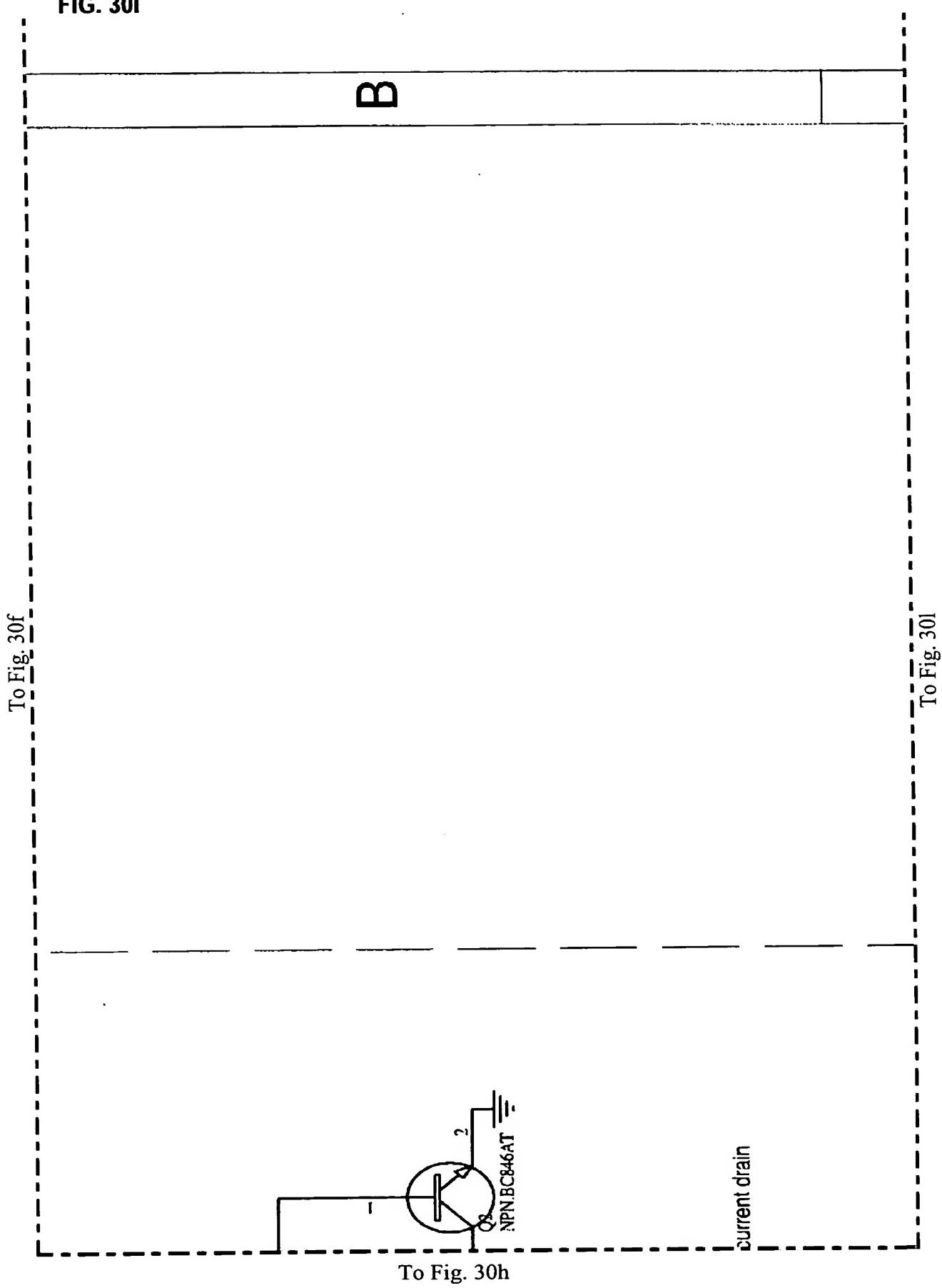
Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

FIG. 30h



**FIG. 30i**



**FIG. 30j**

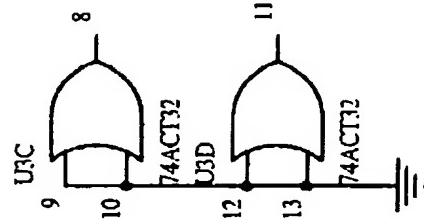
To Fig. 30k

To Fig. 30g

2

1

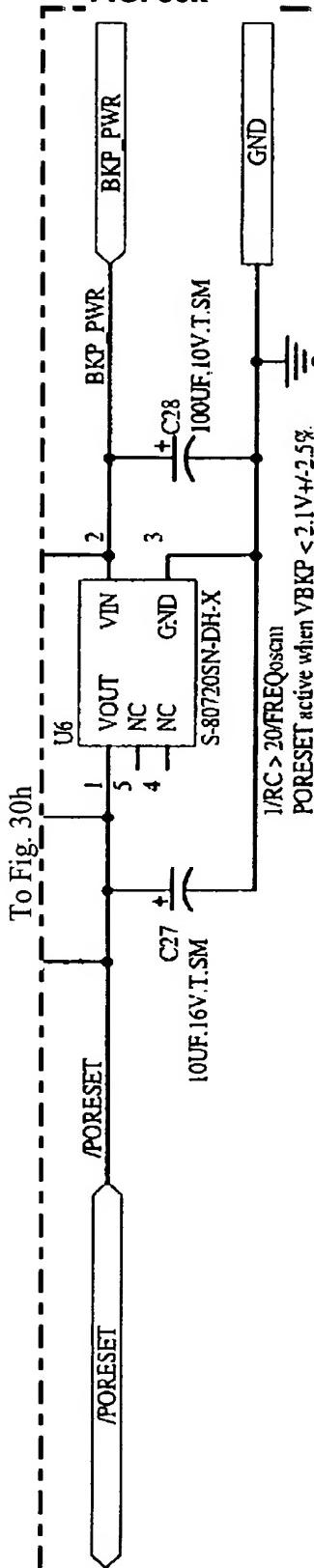
Spare gates



Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 30k**



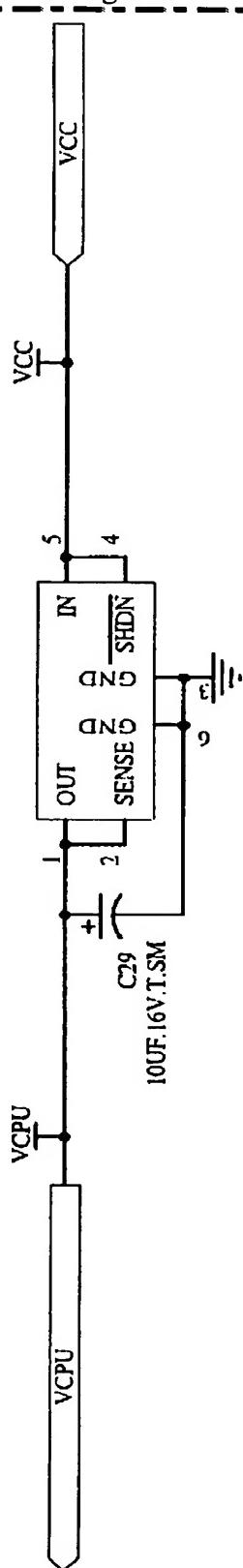
$V_{IRC} > 20V_{FREQosc}$   
PRESET active when  $V_{BKP} < 2.1V + -2.5\%$

C27  
10UF.16V.T.SM

SPORESET

Fig. 30j

To Fig. 301



100UFL6V1.SM  
C29

V<sub>CPU</sub>

VCPU

८८

4

To Fig. 30j

**FIG. 30I**

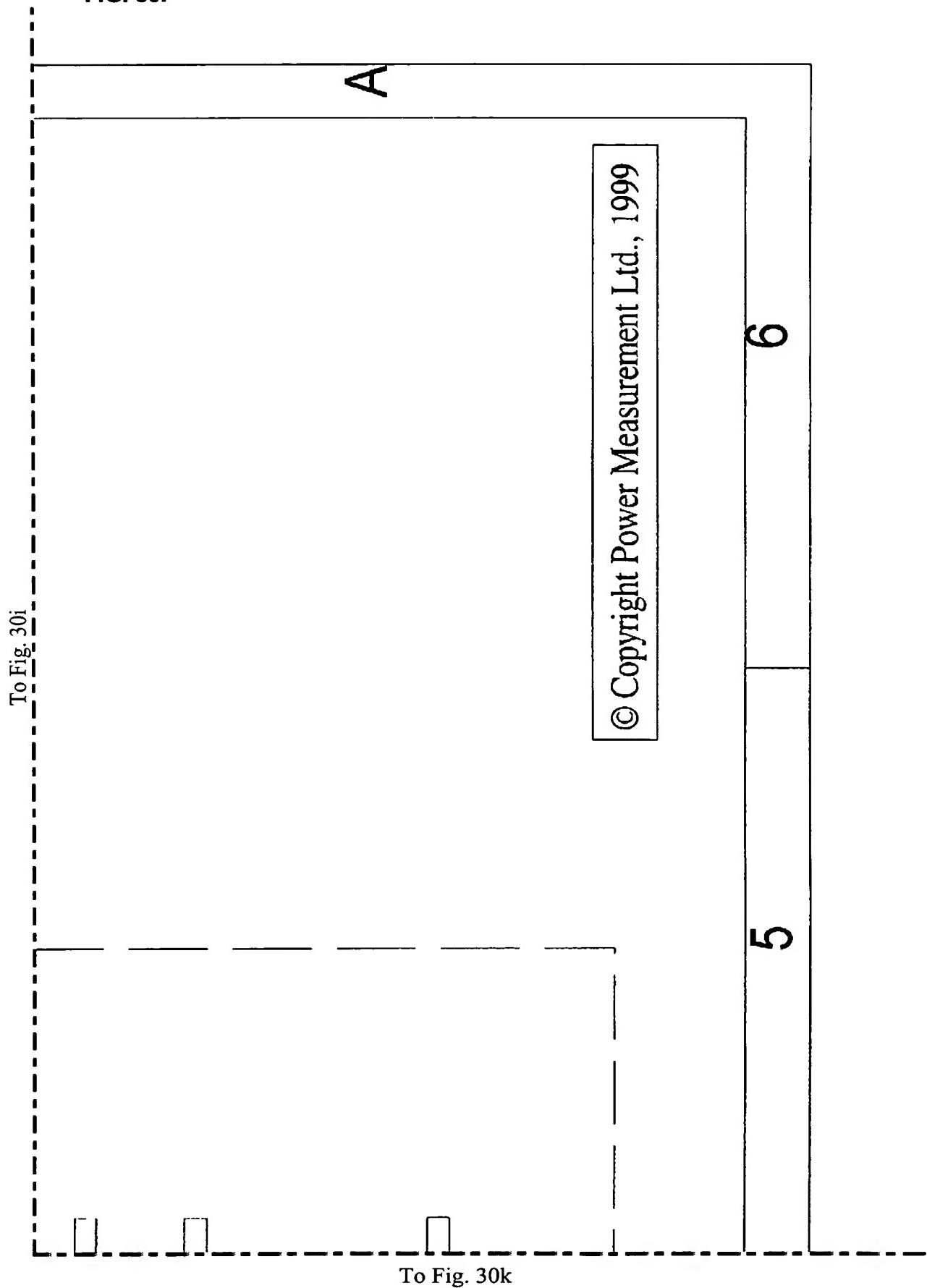
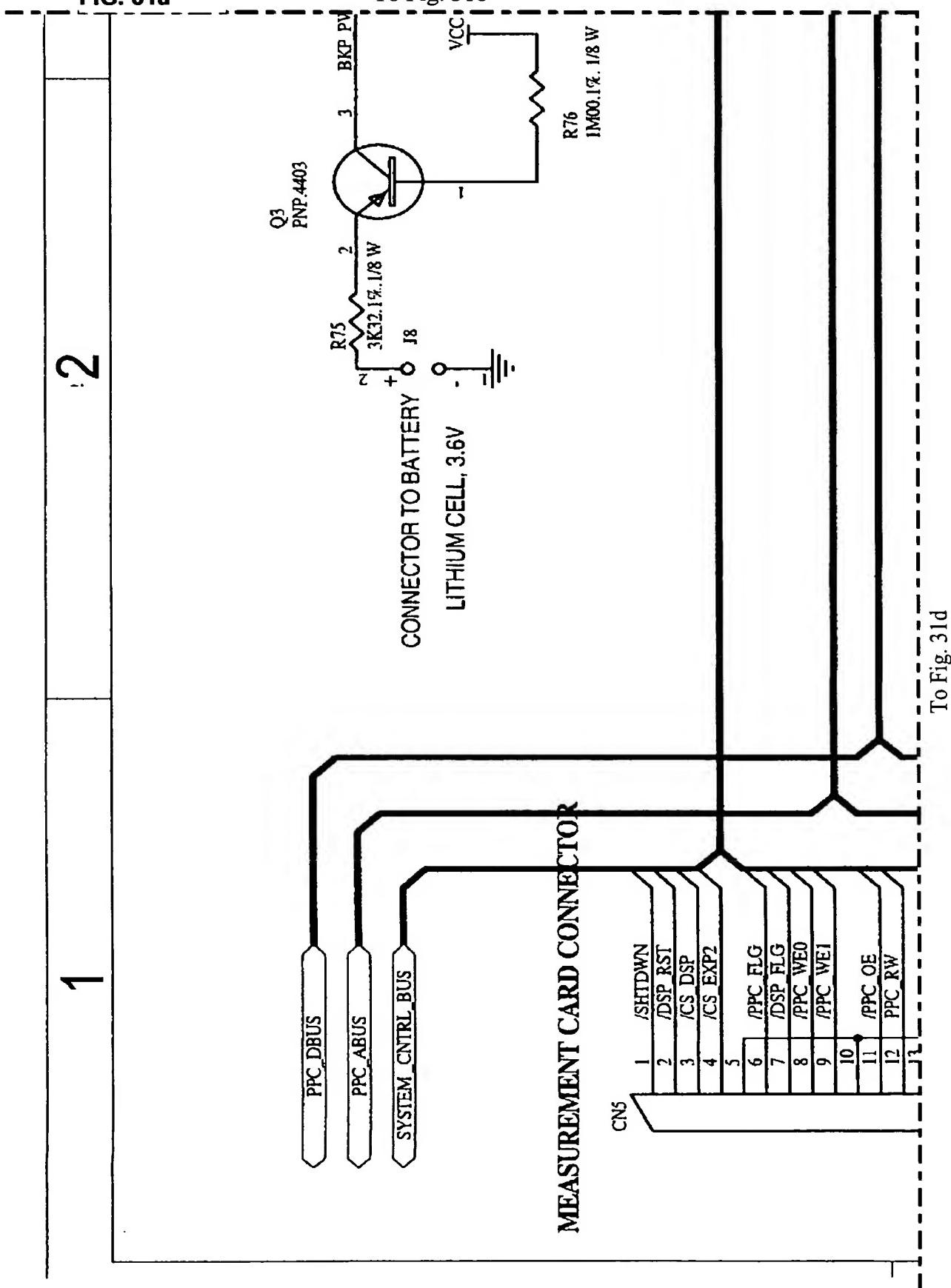


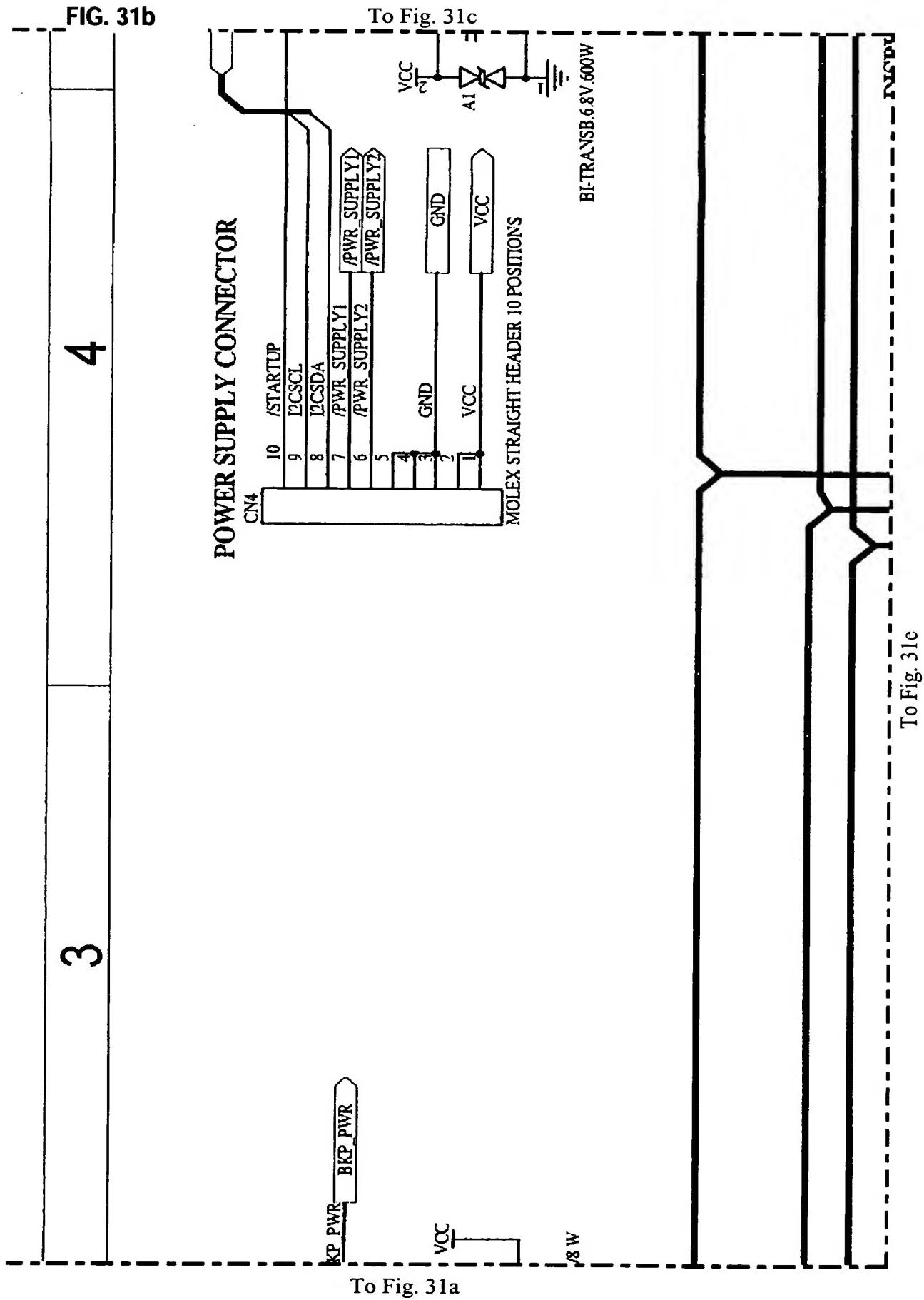
FIG. 31a

To Fig. 31b

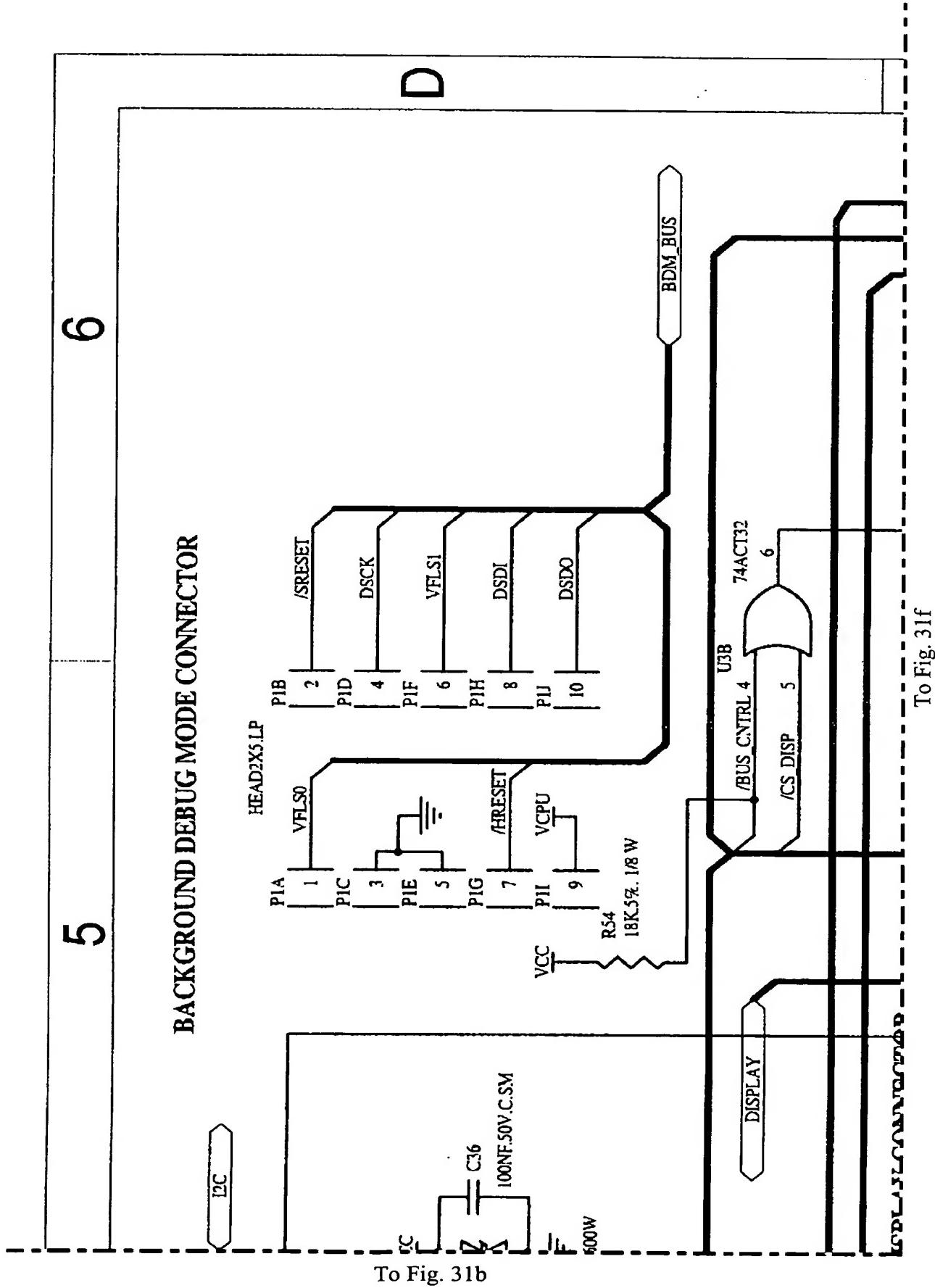


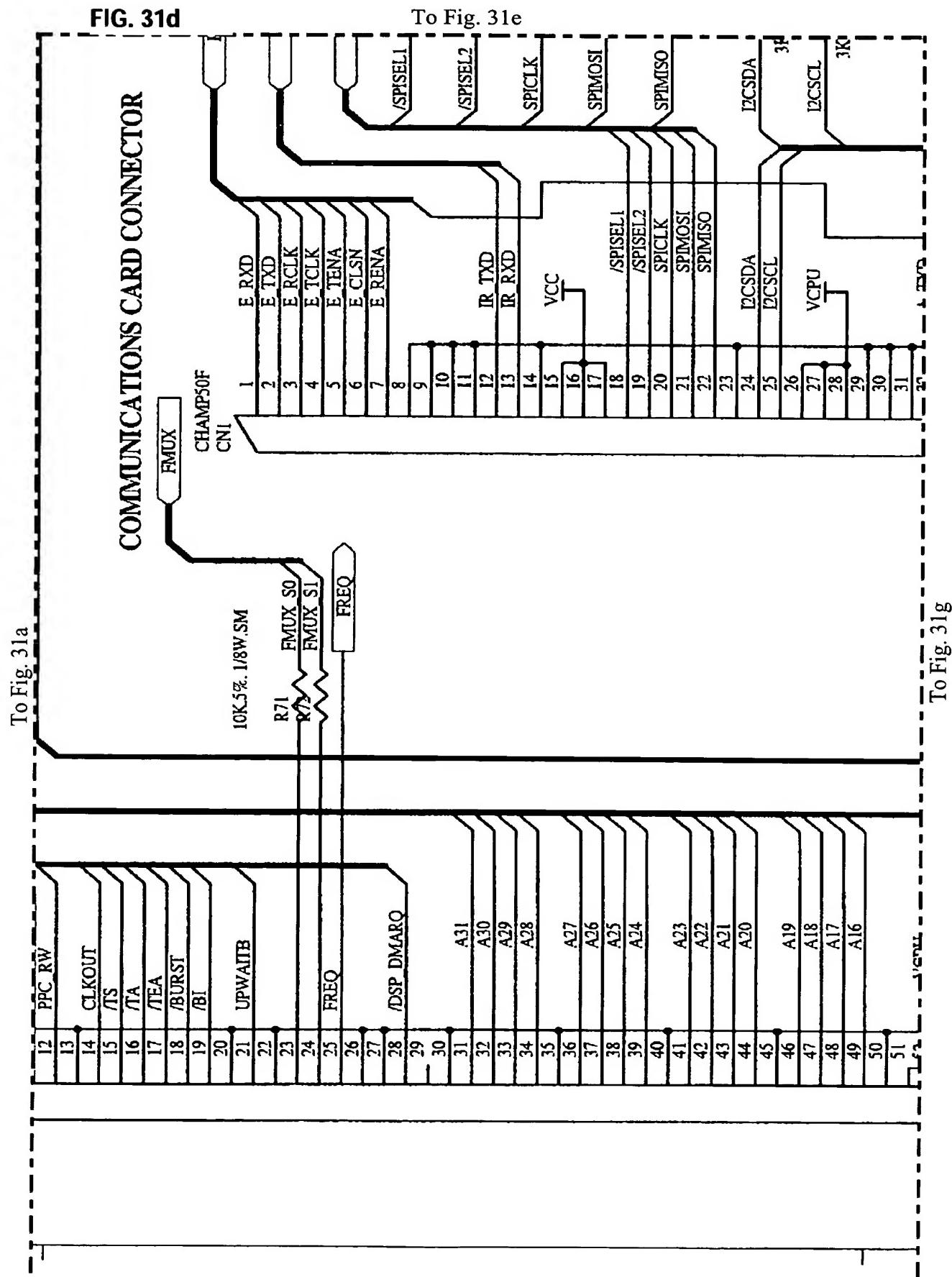
To Fig. 31d

FIG. 31b

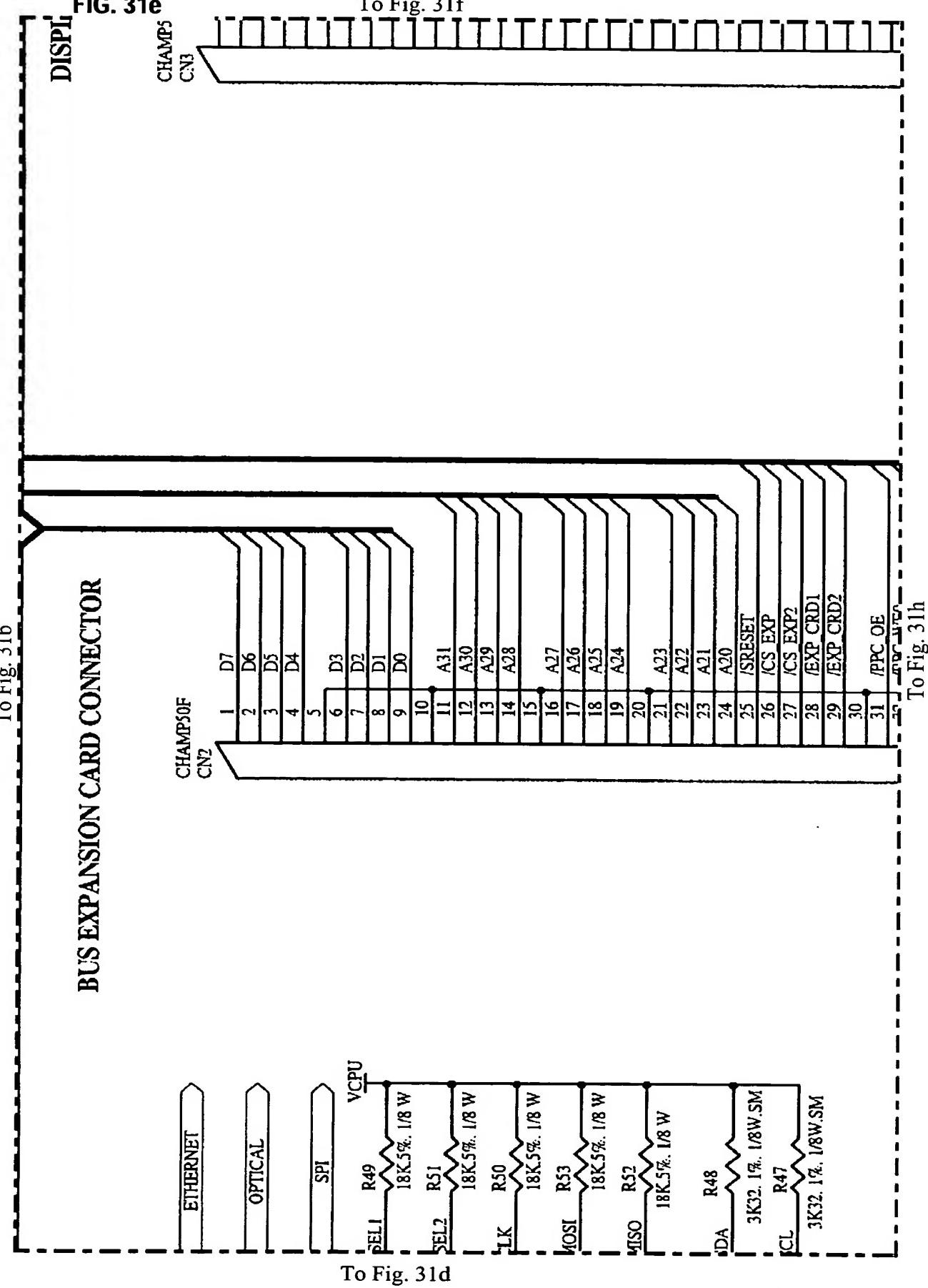


**FIG. 31c**

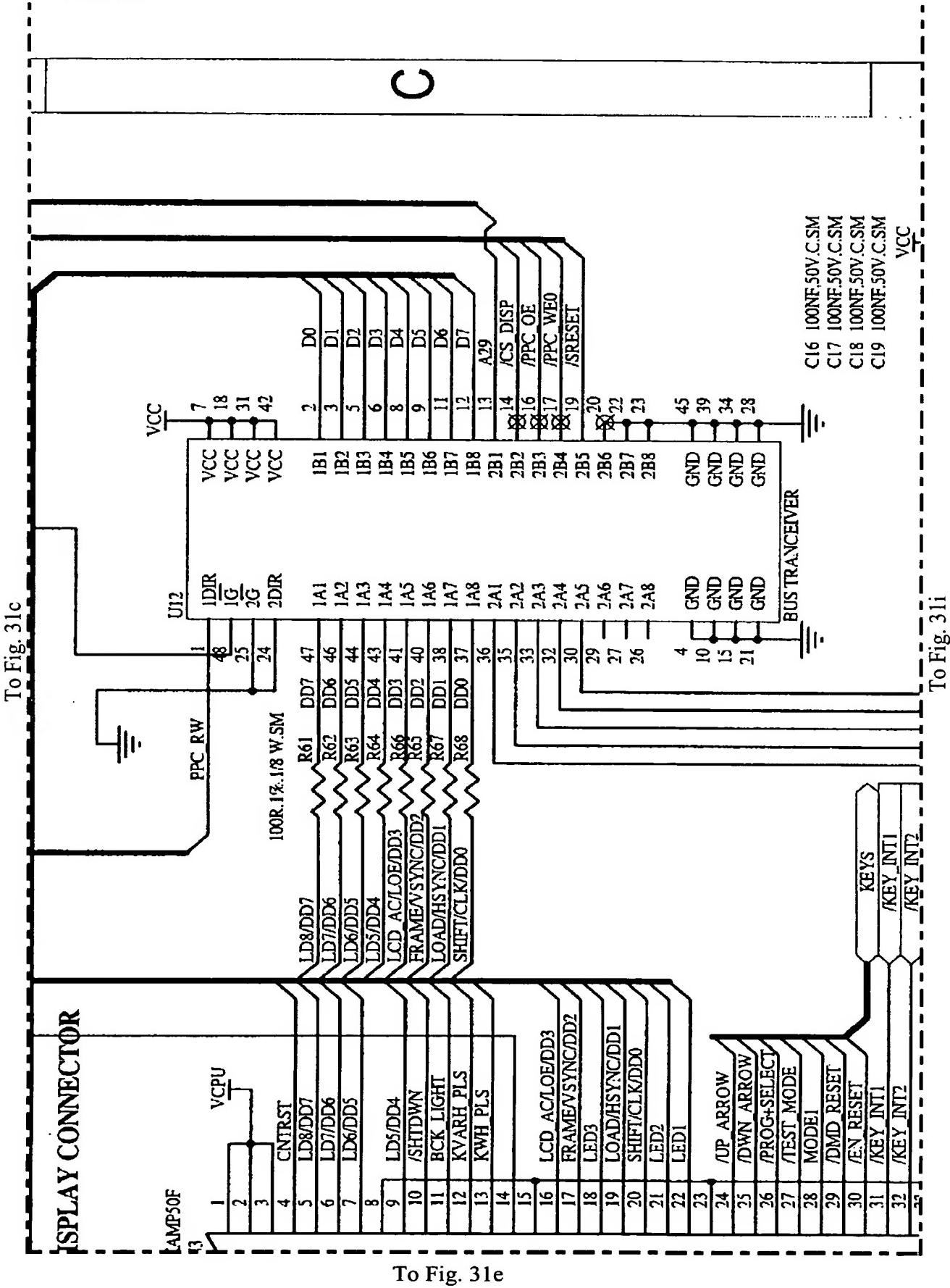


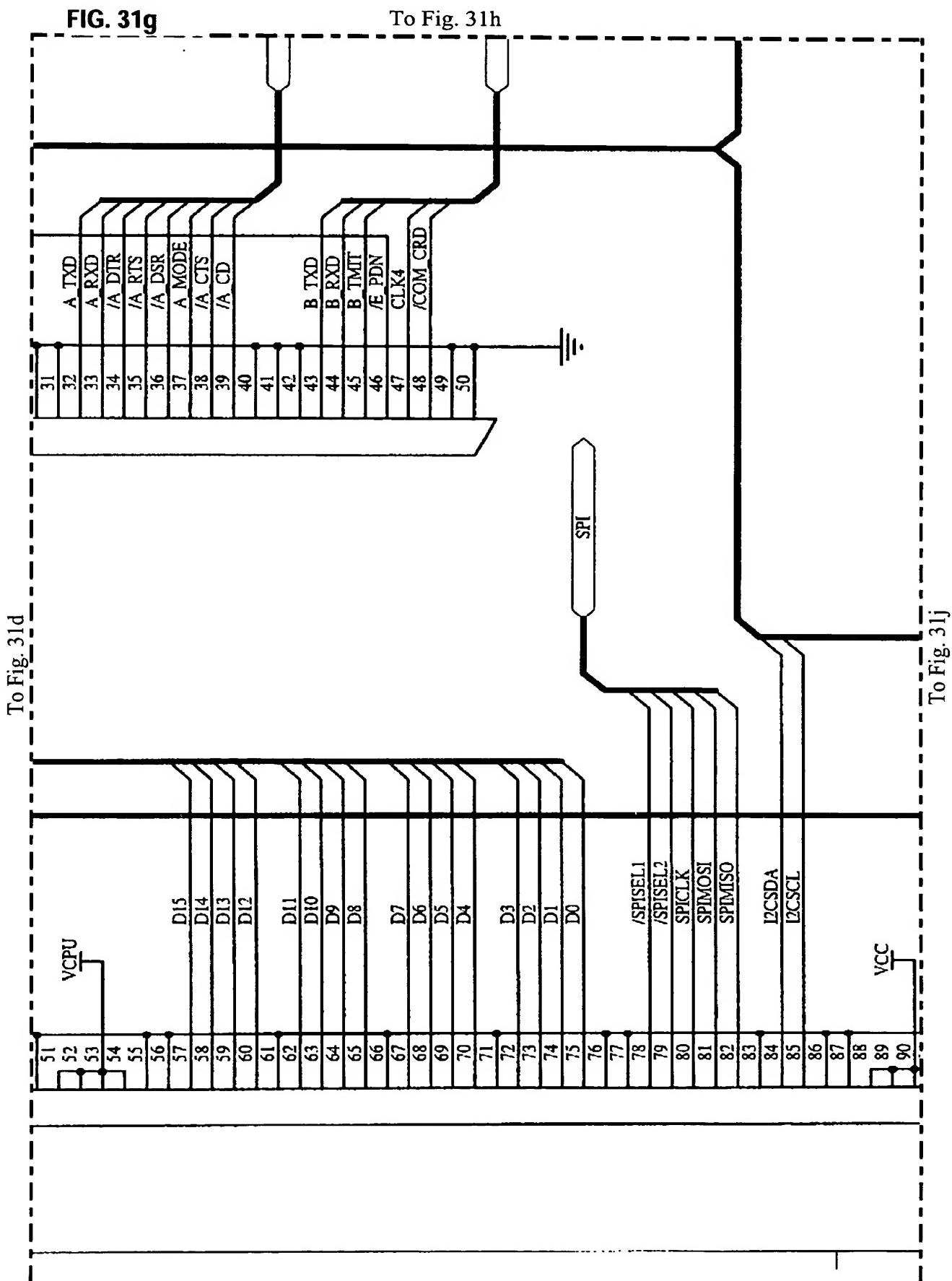


To Fig. 31b  
**BUS EXPANSION CARD CONNECTOR**  
To Fig. 31d



**FIG. 31f**





**FIG. 31h**

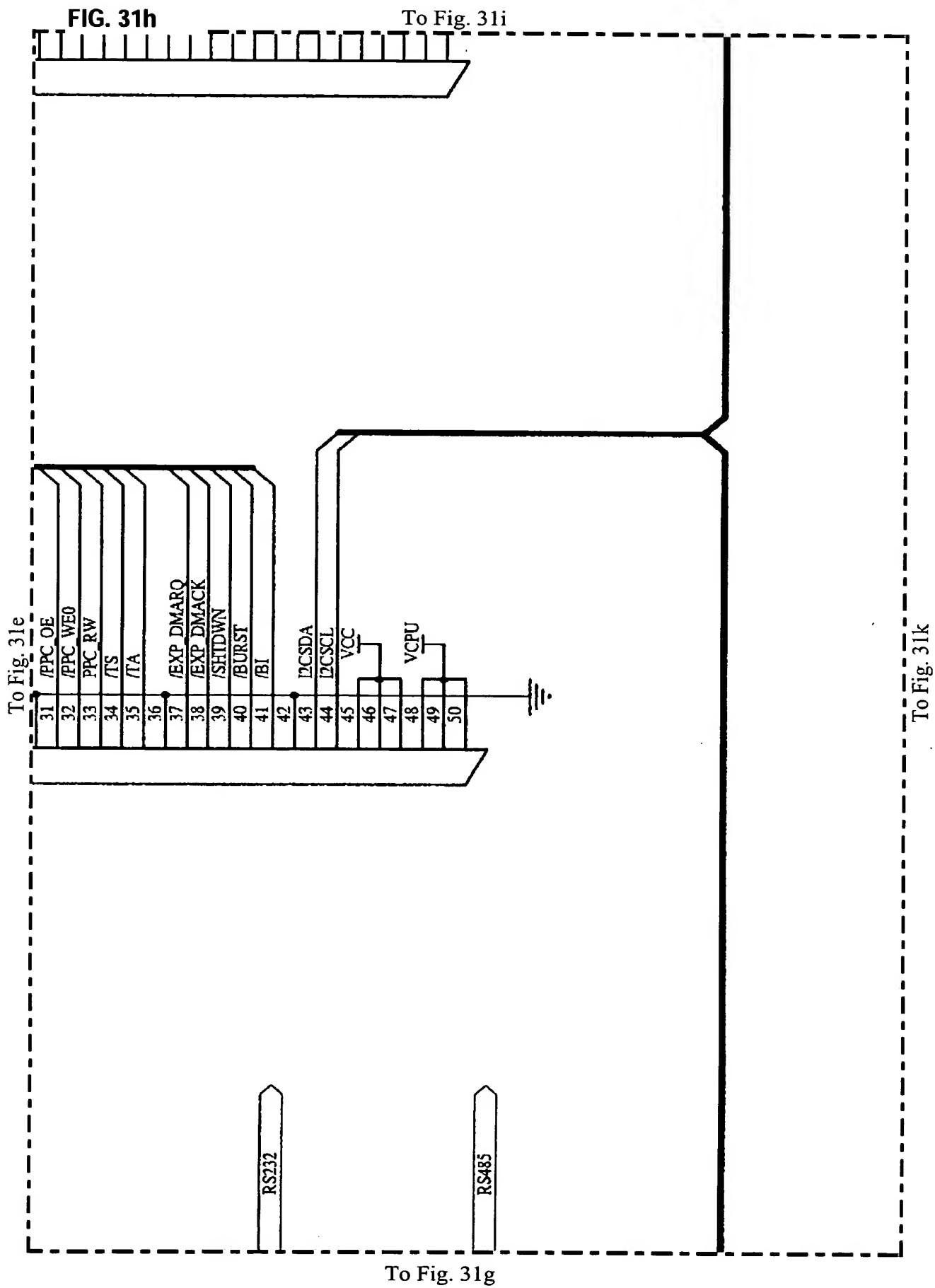
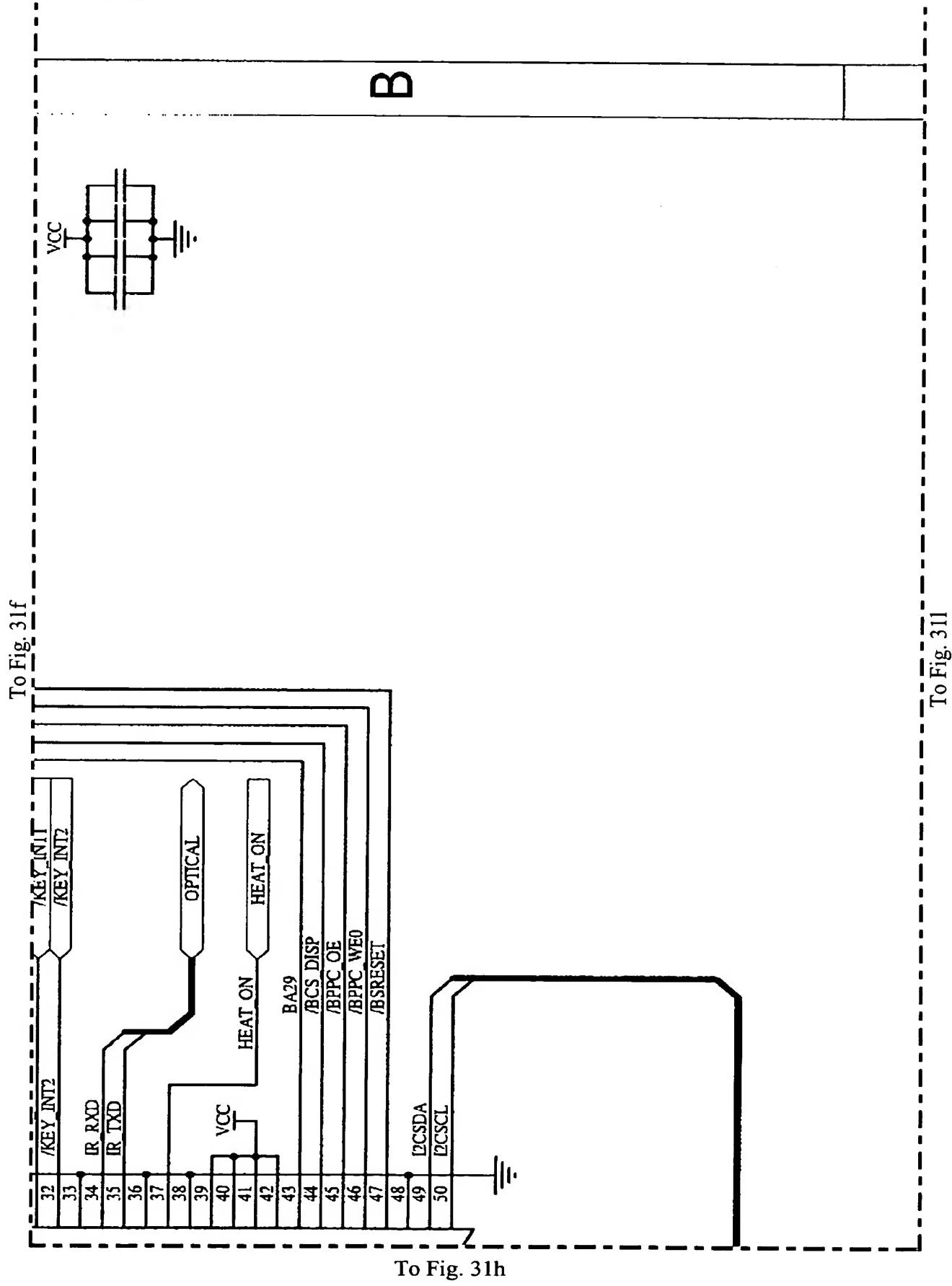


FIG. 31i



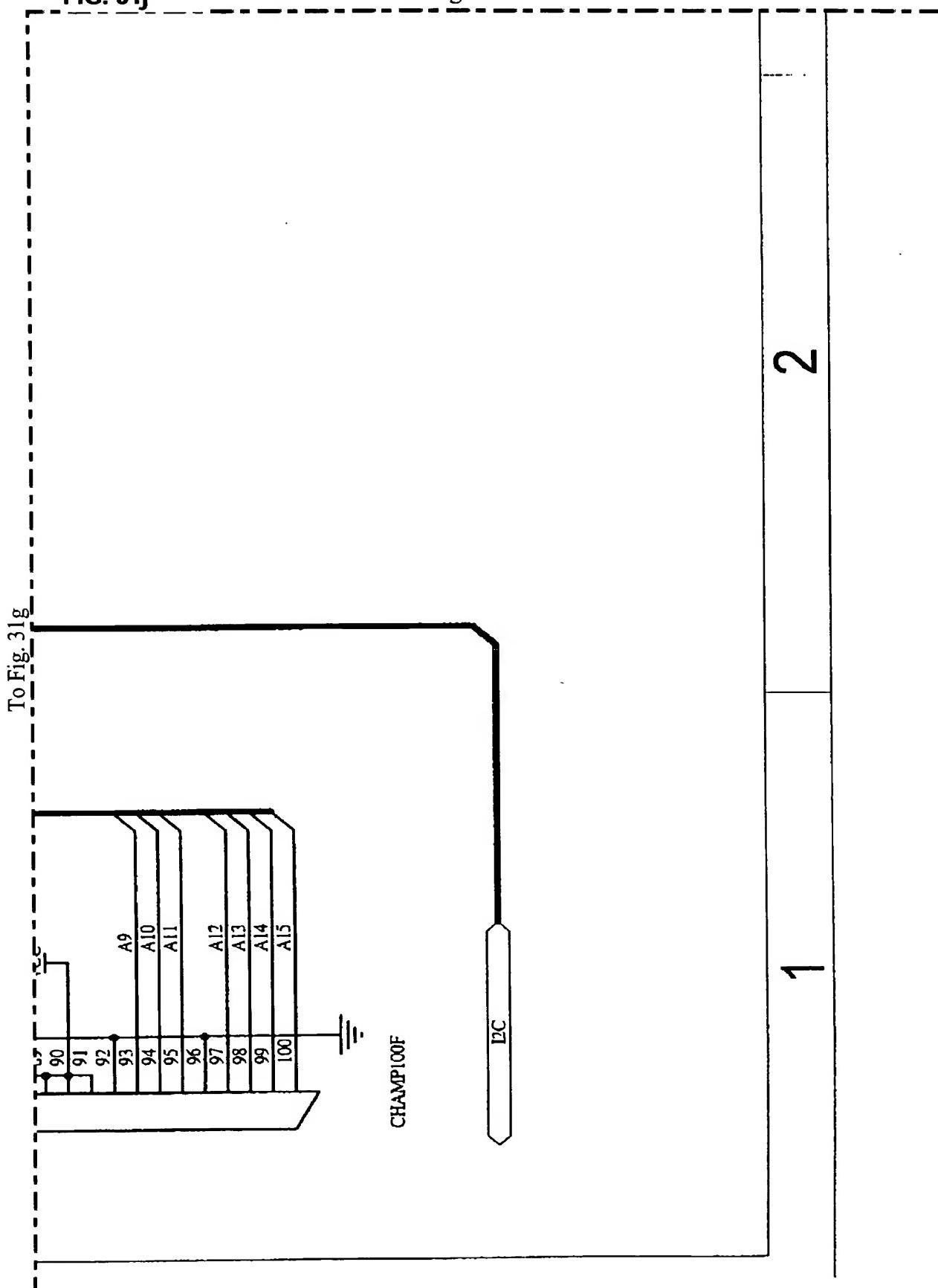
To Fig. 31f

To Fig. 31h

To Fig. 31i

**FIG. 31j**

To Fig. 31k



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 31k**

To Fig. 31l

To Fig. 31h

**4**

**3**

To Fig. 31j

**FIG. 31I**

To Fig. 31i

A

© Copyright Power Measurement Ltd., 1999

5

,6

To Fig. 31k

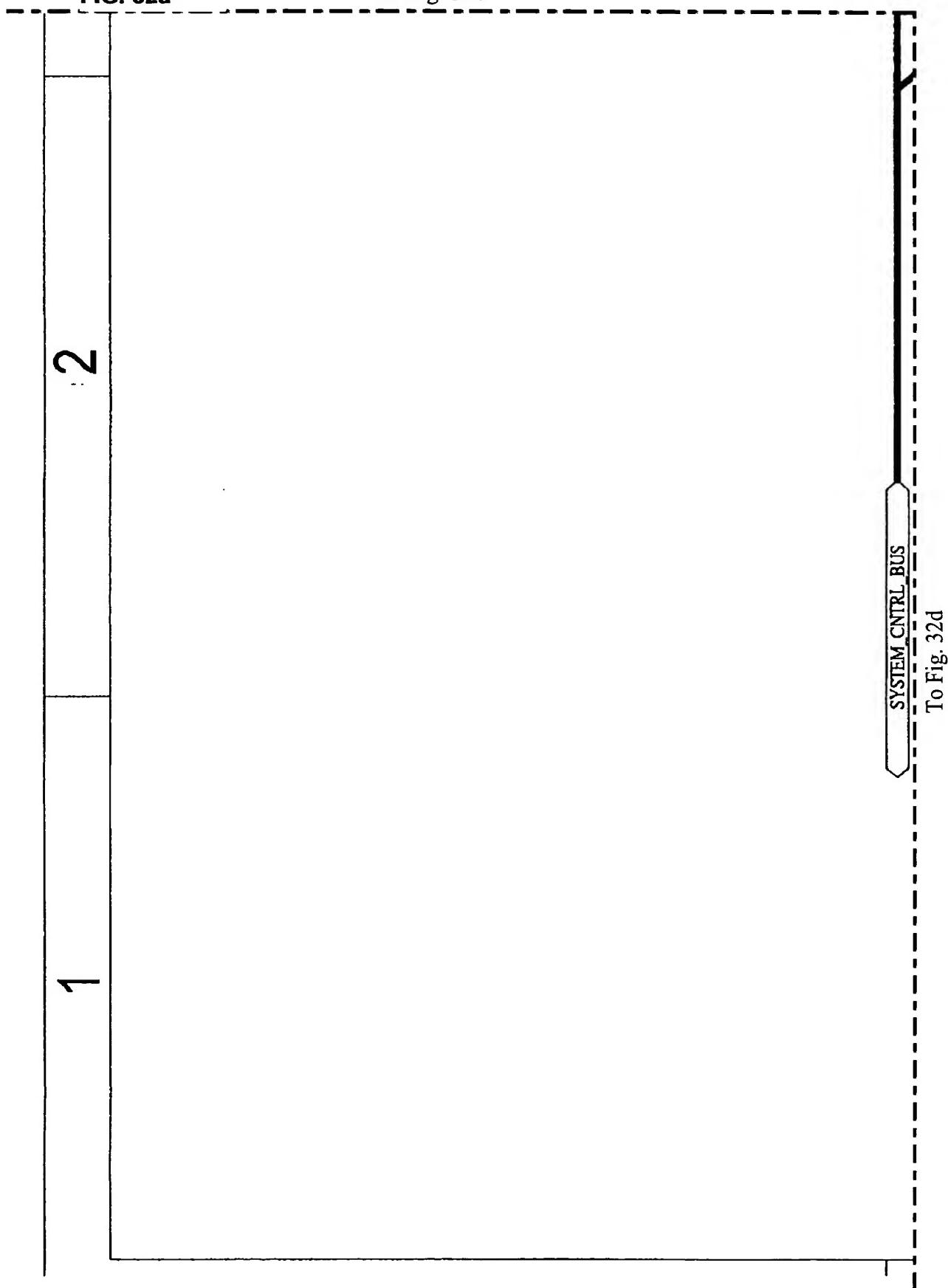
Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 32a**

To Fig. 32b



SYSTEM CNTRL BUS

To Fig. 32d

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 32b**

To Fig. 32c

4

3

To Fig. 32e

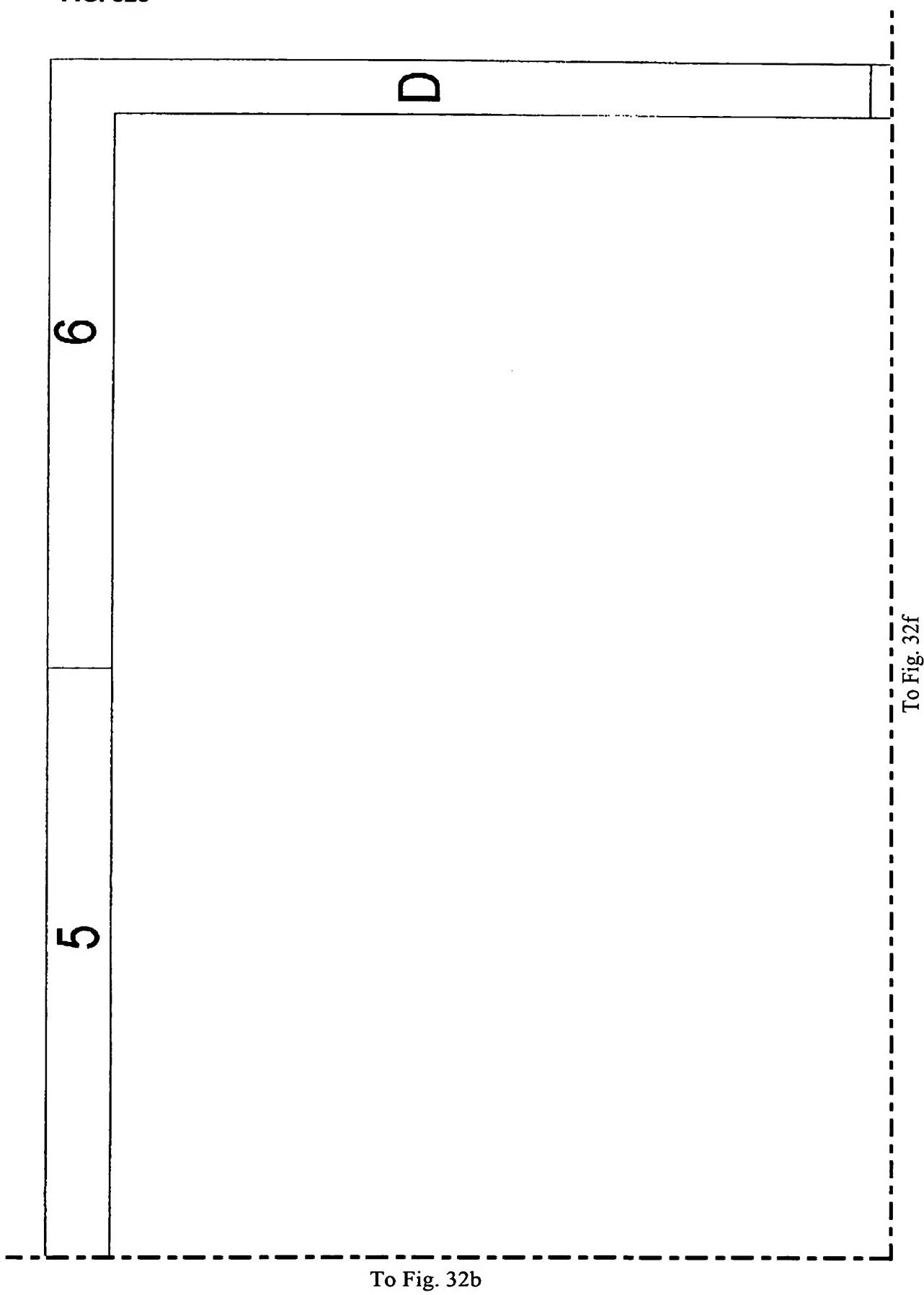
To Fig. 32a

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

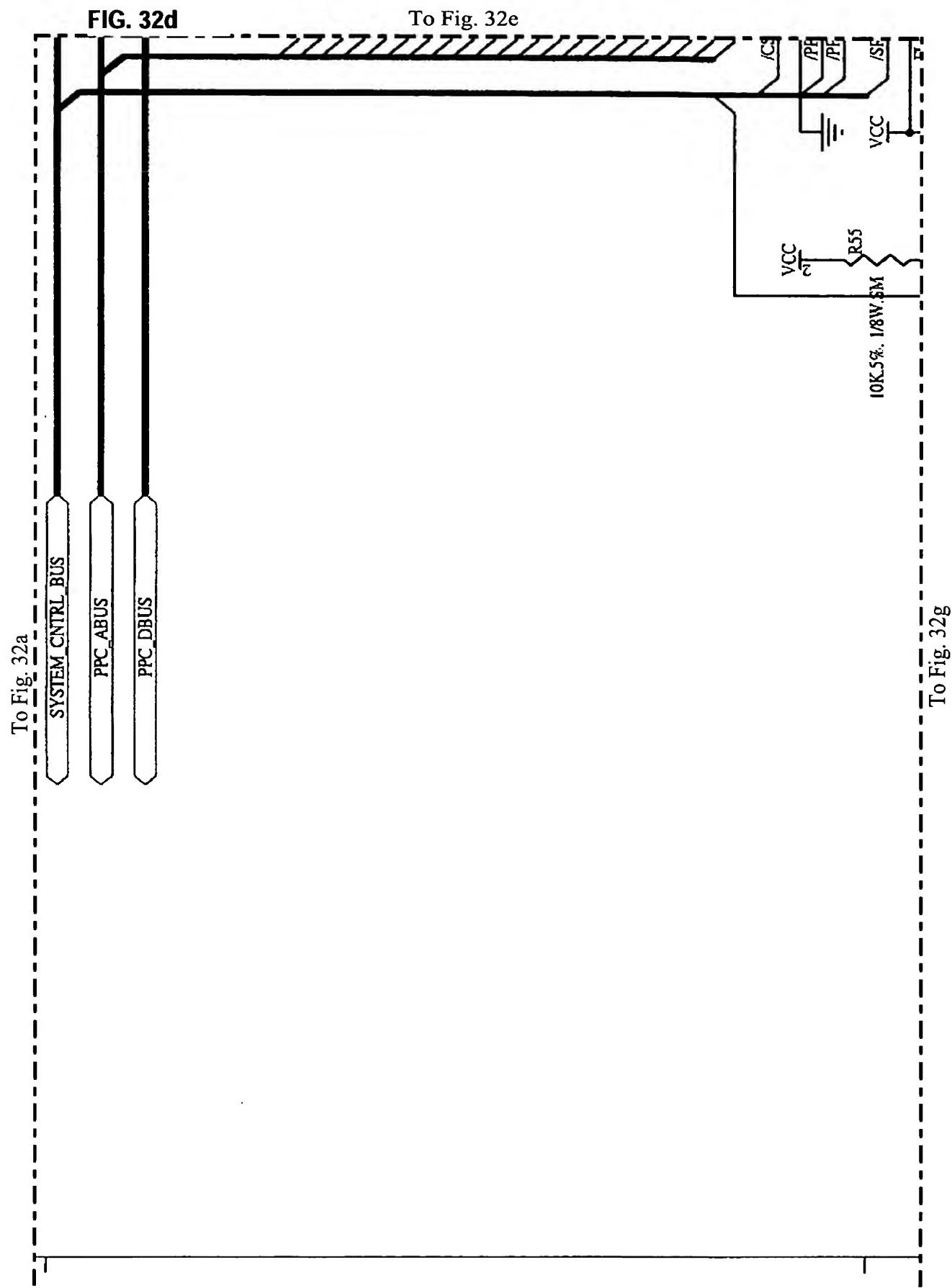
**FIG. 32c**



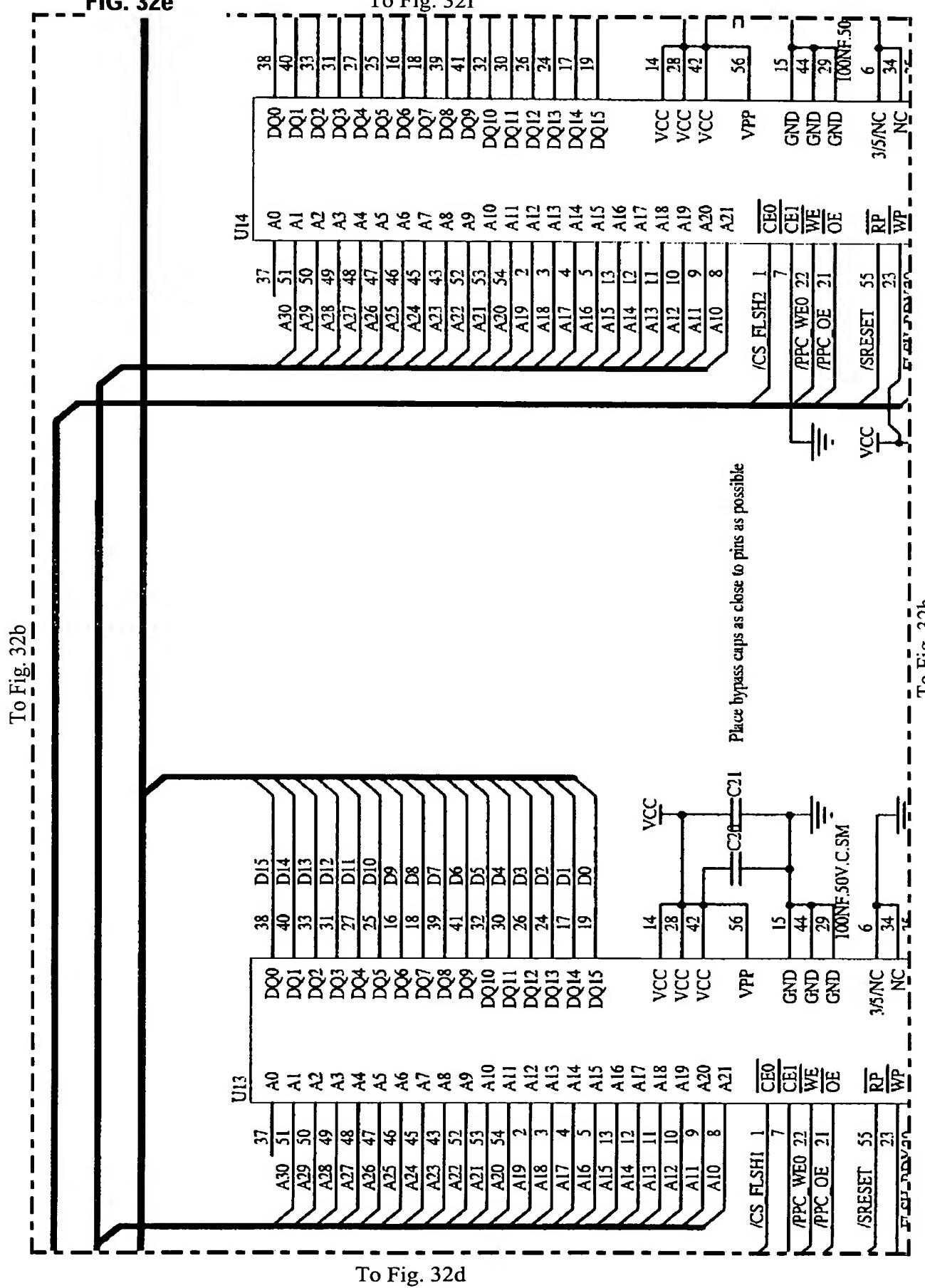
Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125



**FIG. 32e**



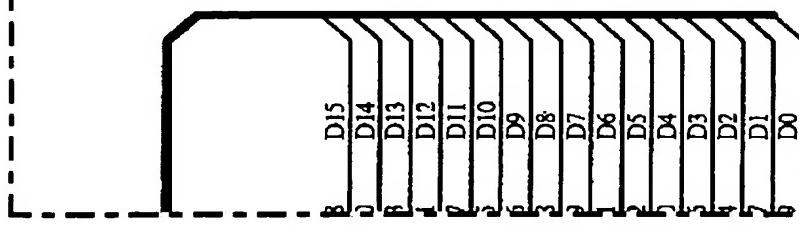
To Fig. 32h

**FIG. 32f**

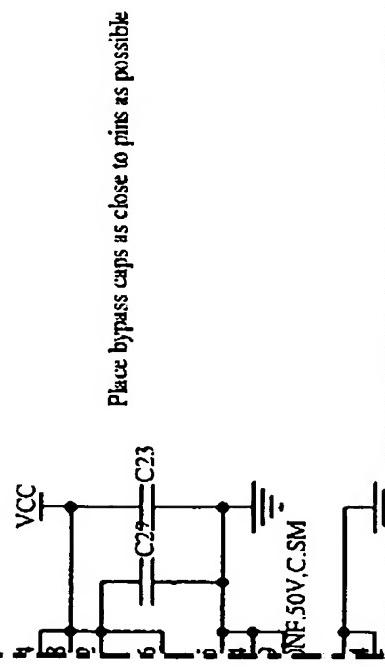
To Fig. 32c

C

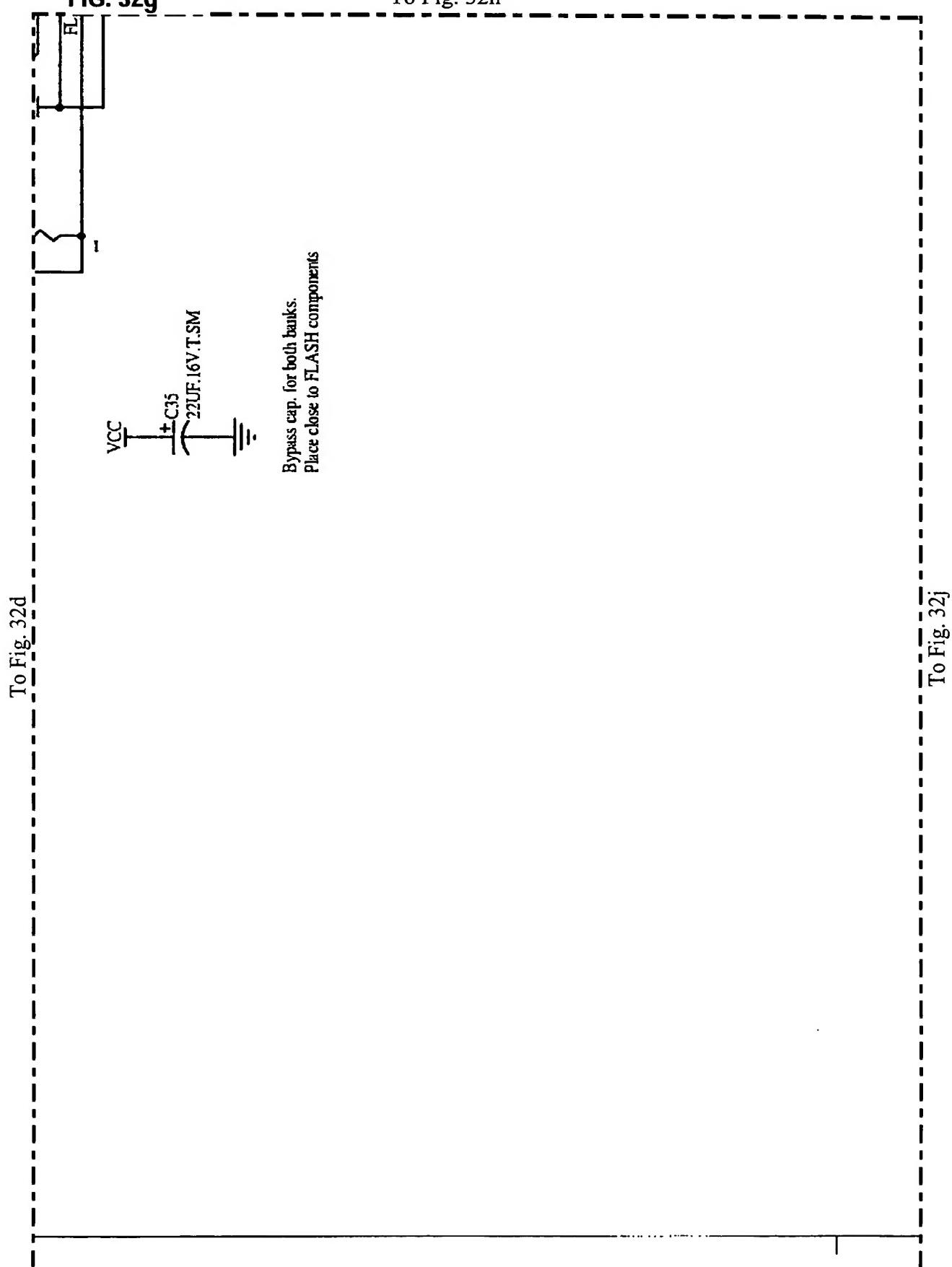
To Fig. 32i



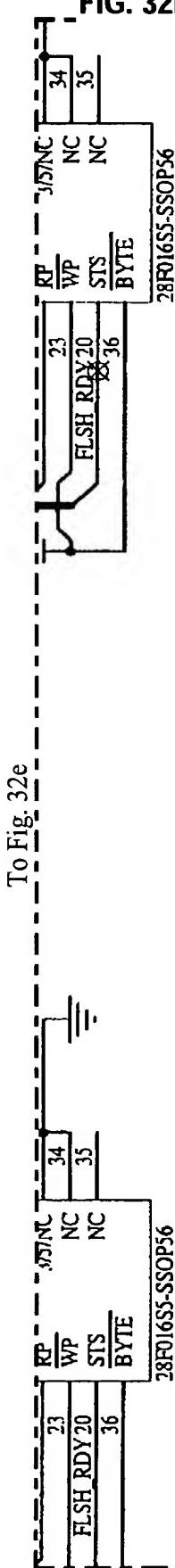
To Fig. 32e



**FIG. 32g**



**FIG. 32h**



To Fig. 32e

To Fig. 32g

To Fig. 32i

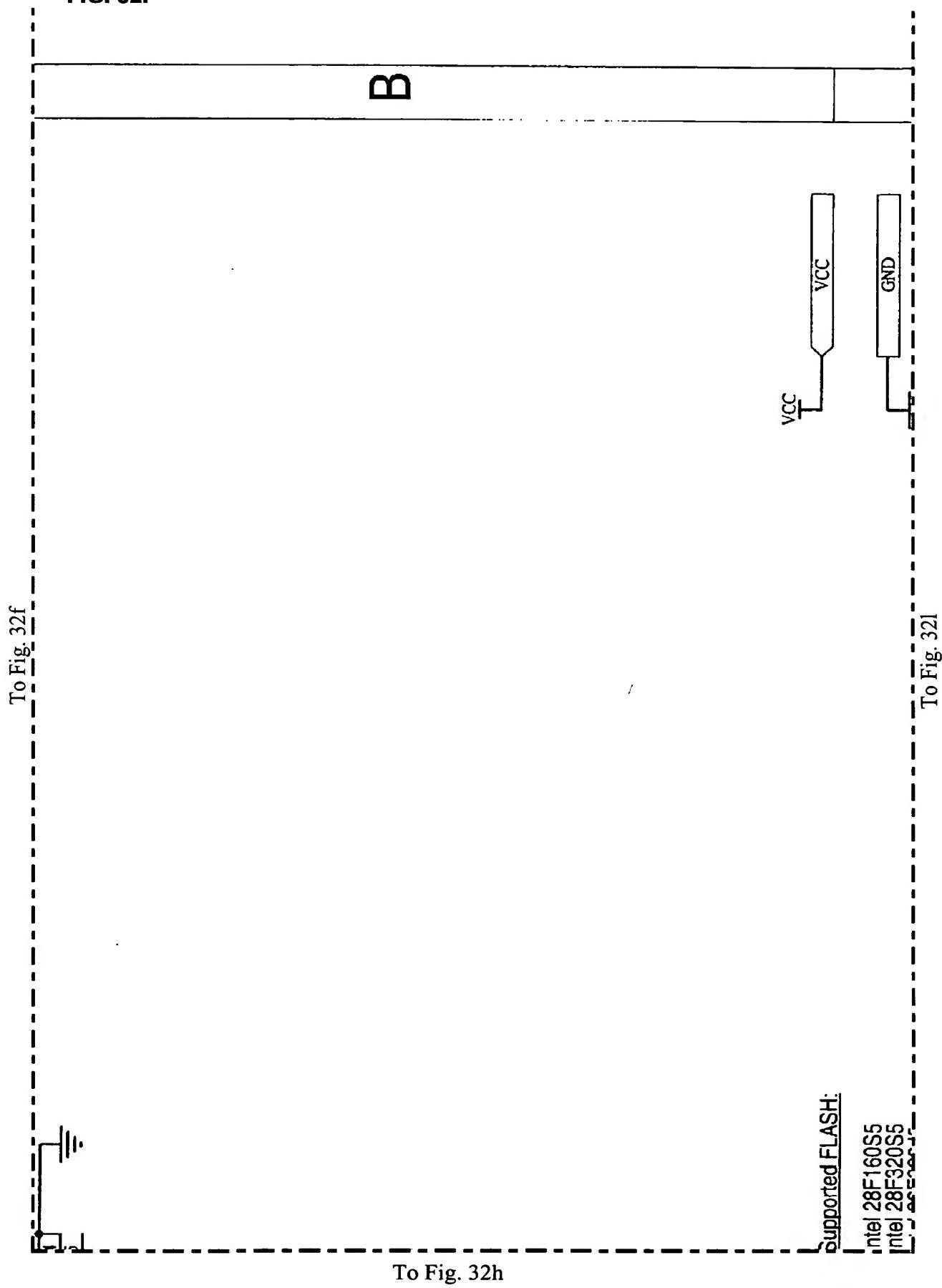
**NOTES:**

1. 2 Banks of 2/4 MB each. Total of 8 MB
2. BOOT bank must be populated. FLSH2 bank is for expansion

To Fig. 32k

Supp  
Intel  
Intel

**FIG. 32i**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

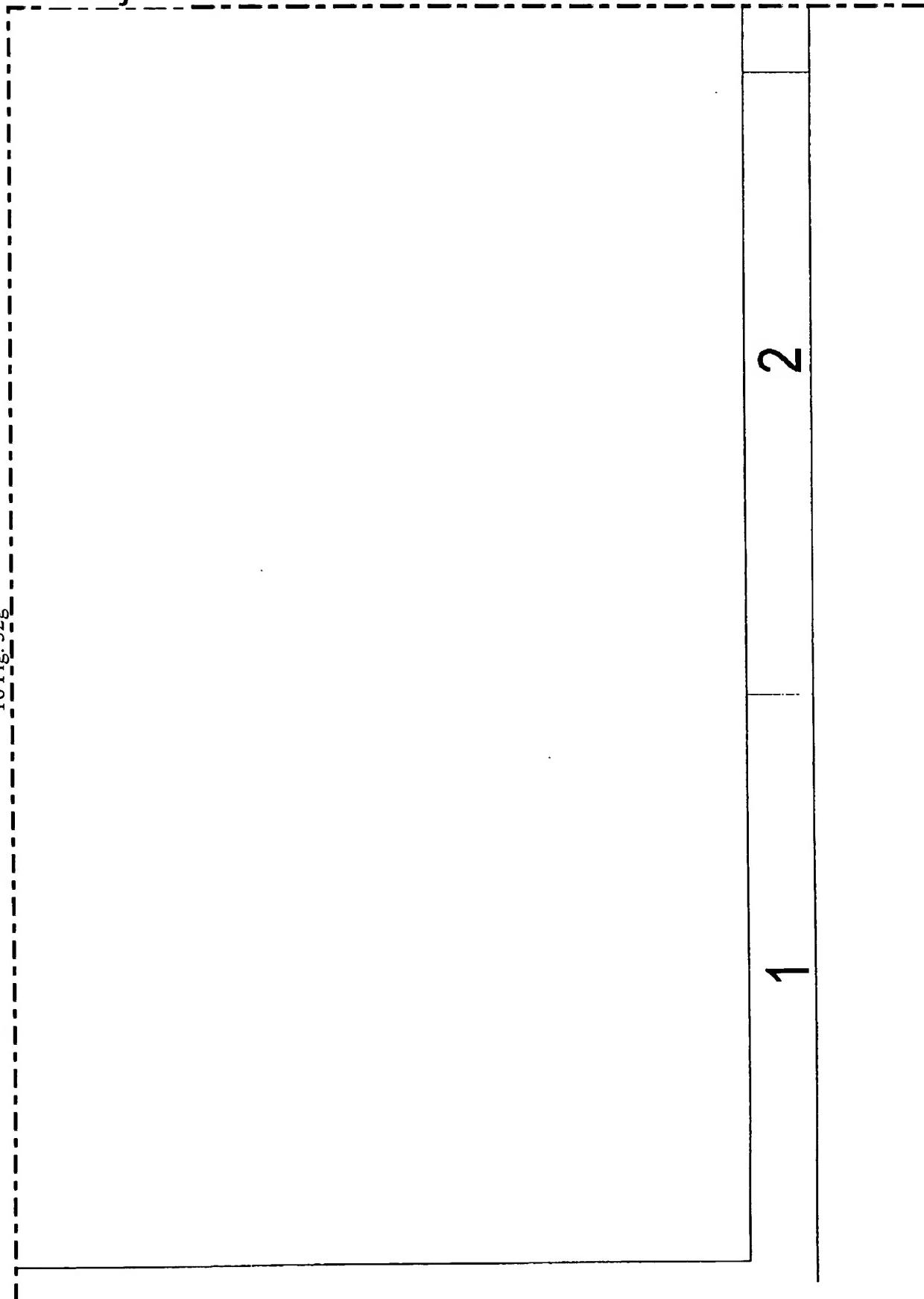
**FIG. 32j**

To Fig. 32k

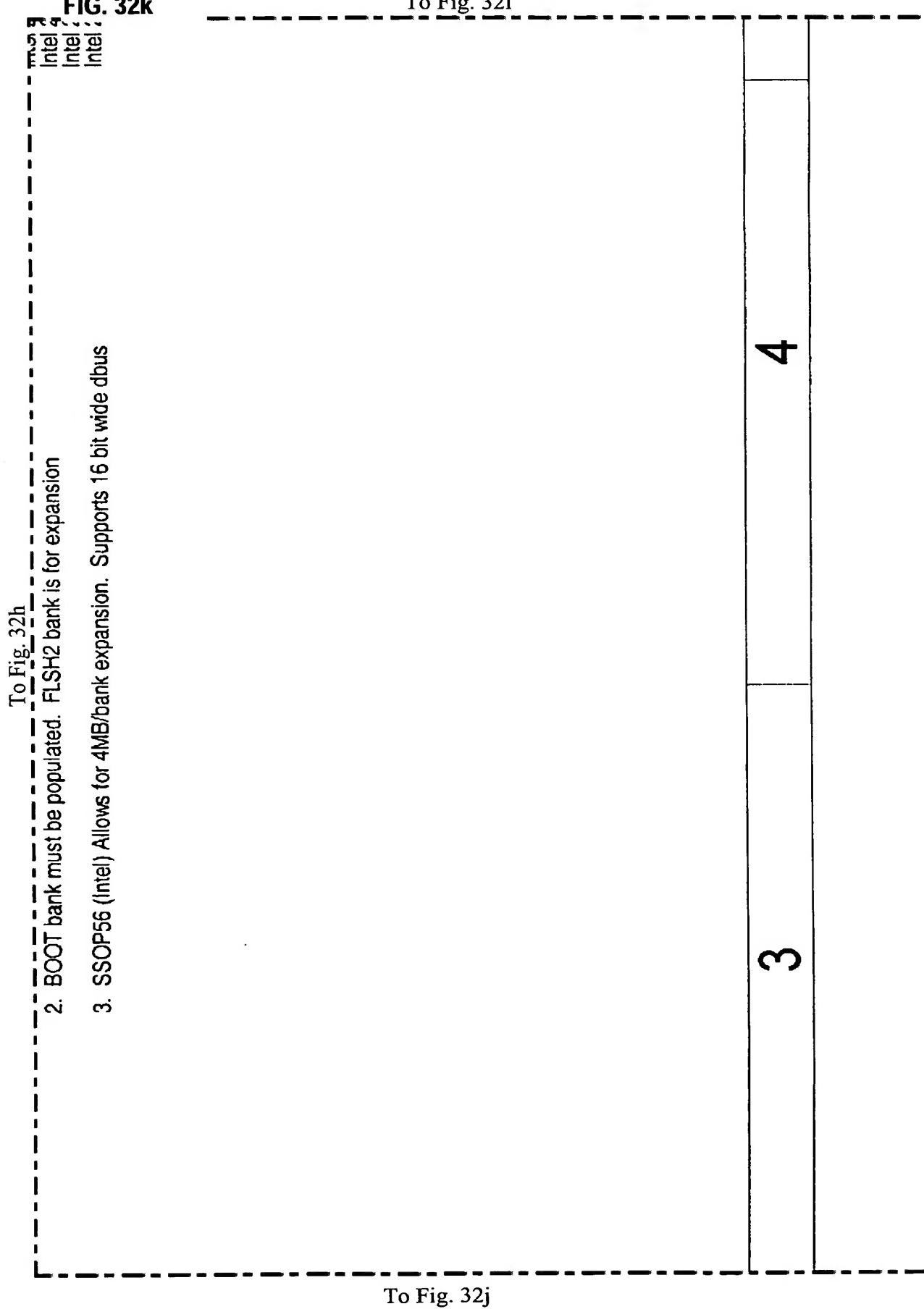
To Fig. 32g

2

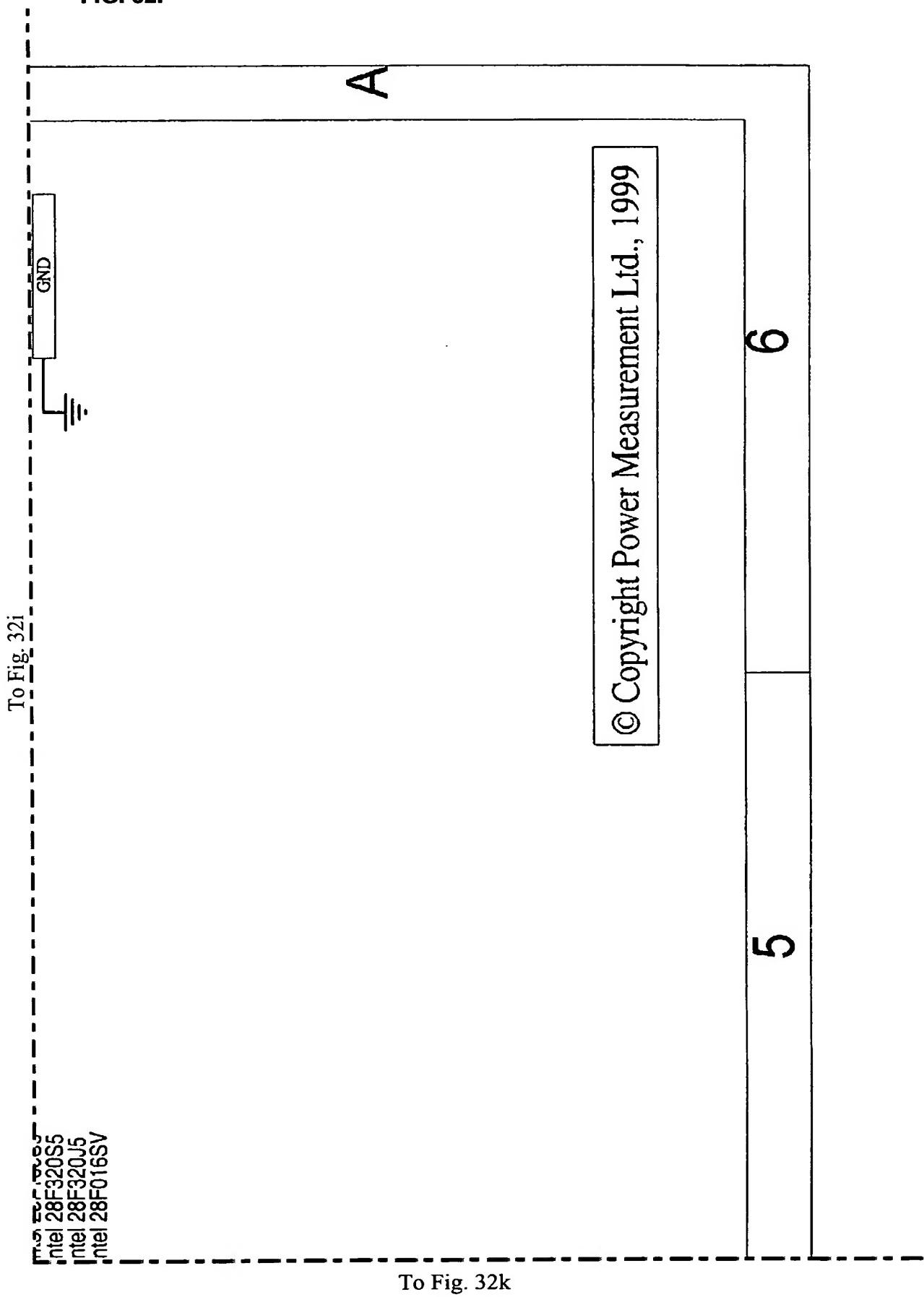
1



**FIG. 32k**

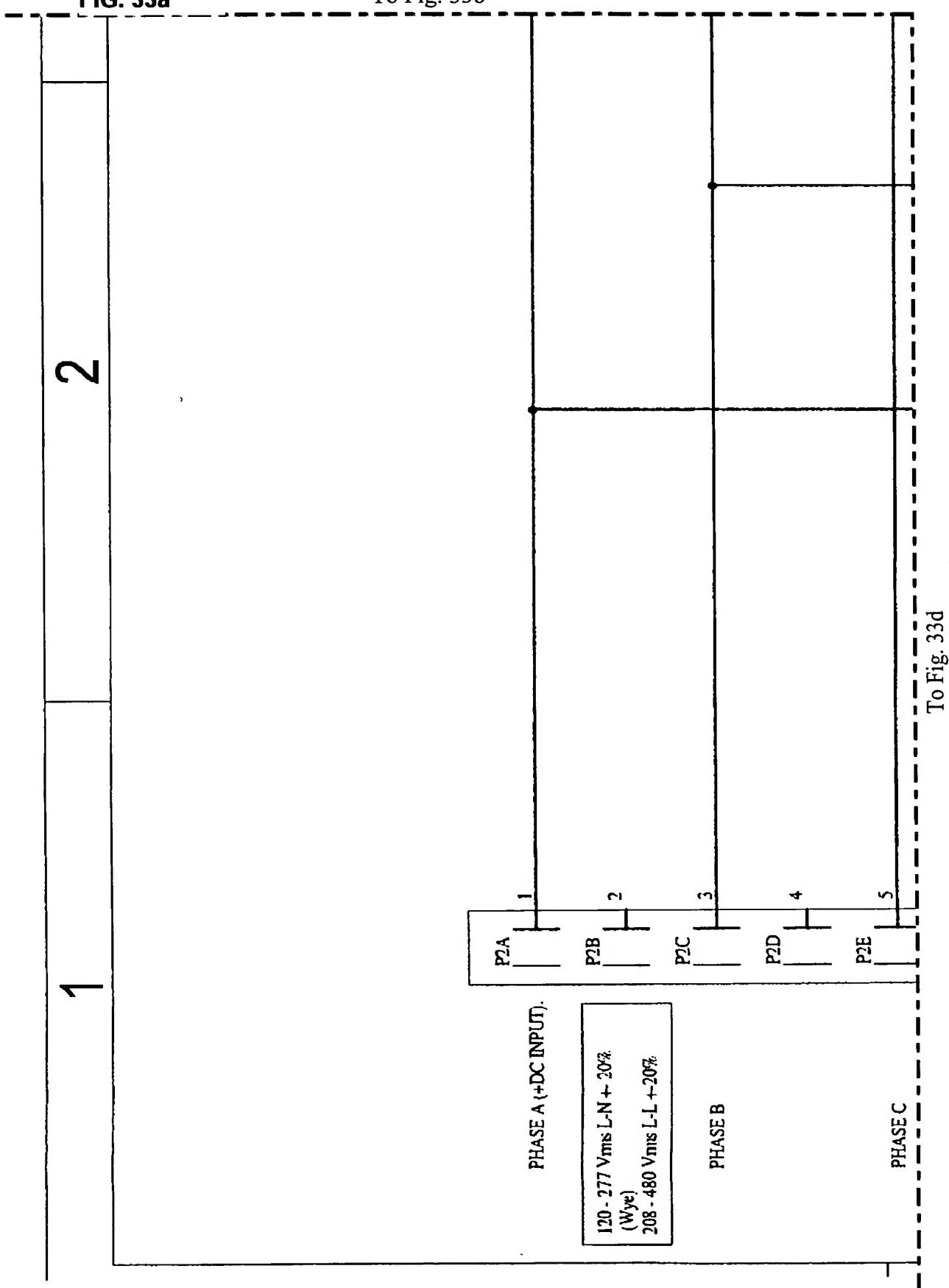


**FIG. 32I**



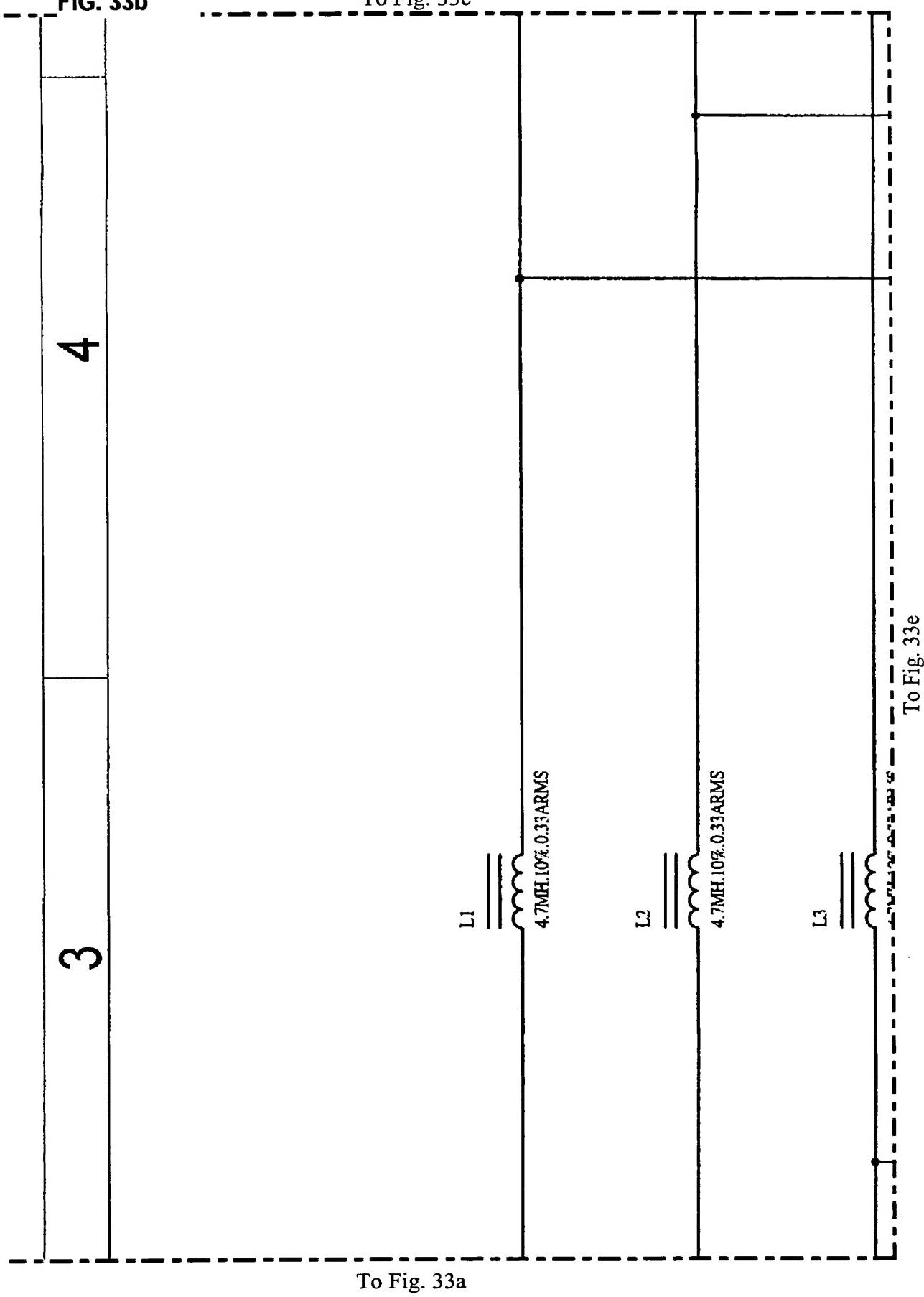
**FIG. 33a**

To Fig. 33b



**FIG. 33b**

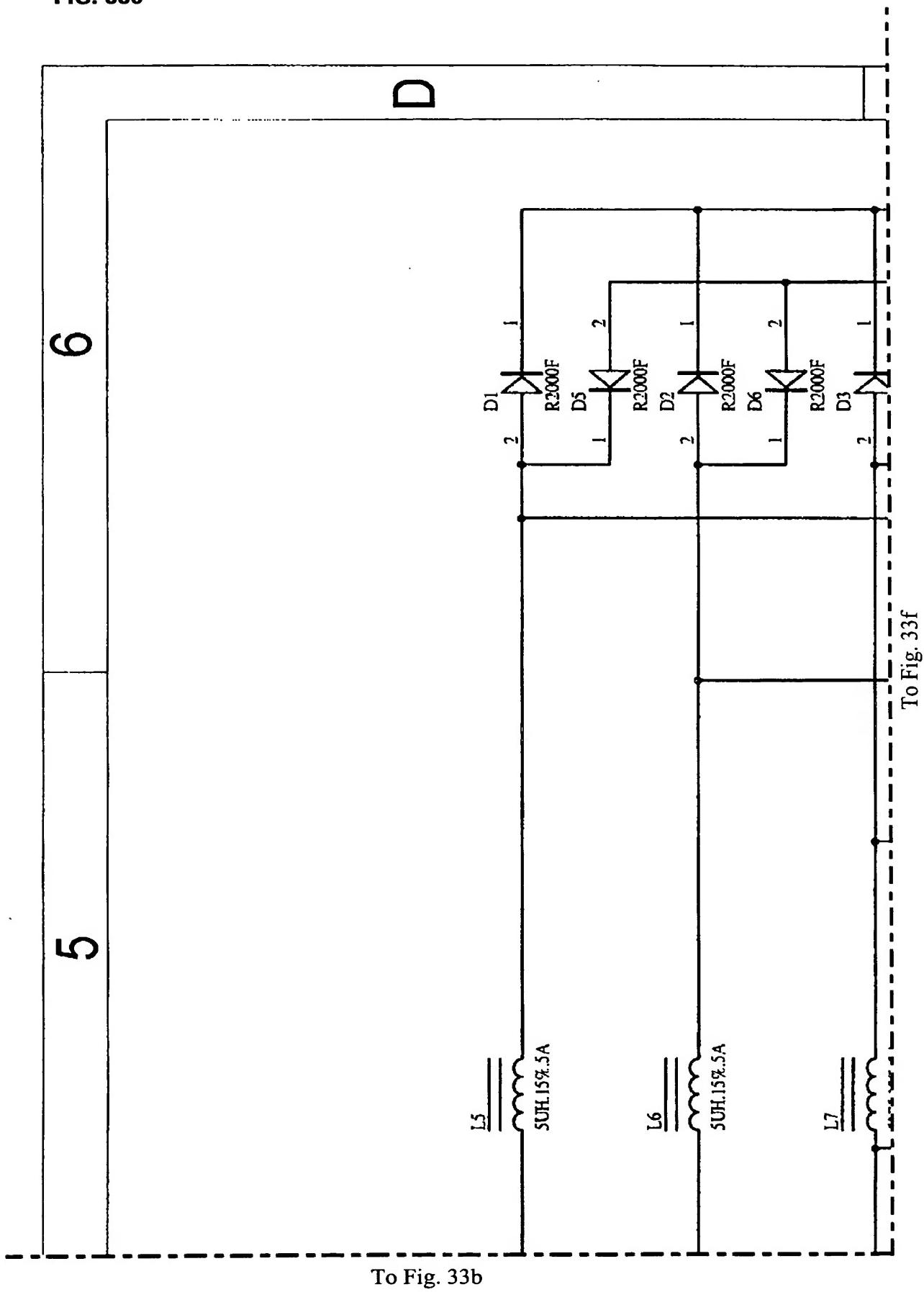
To Fig. 33c



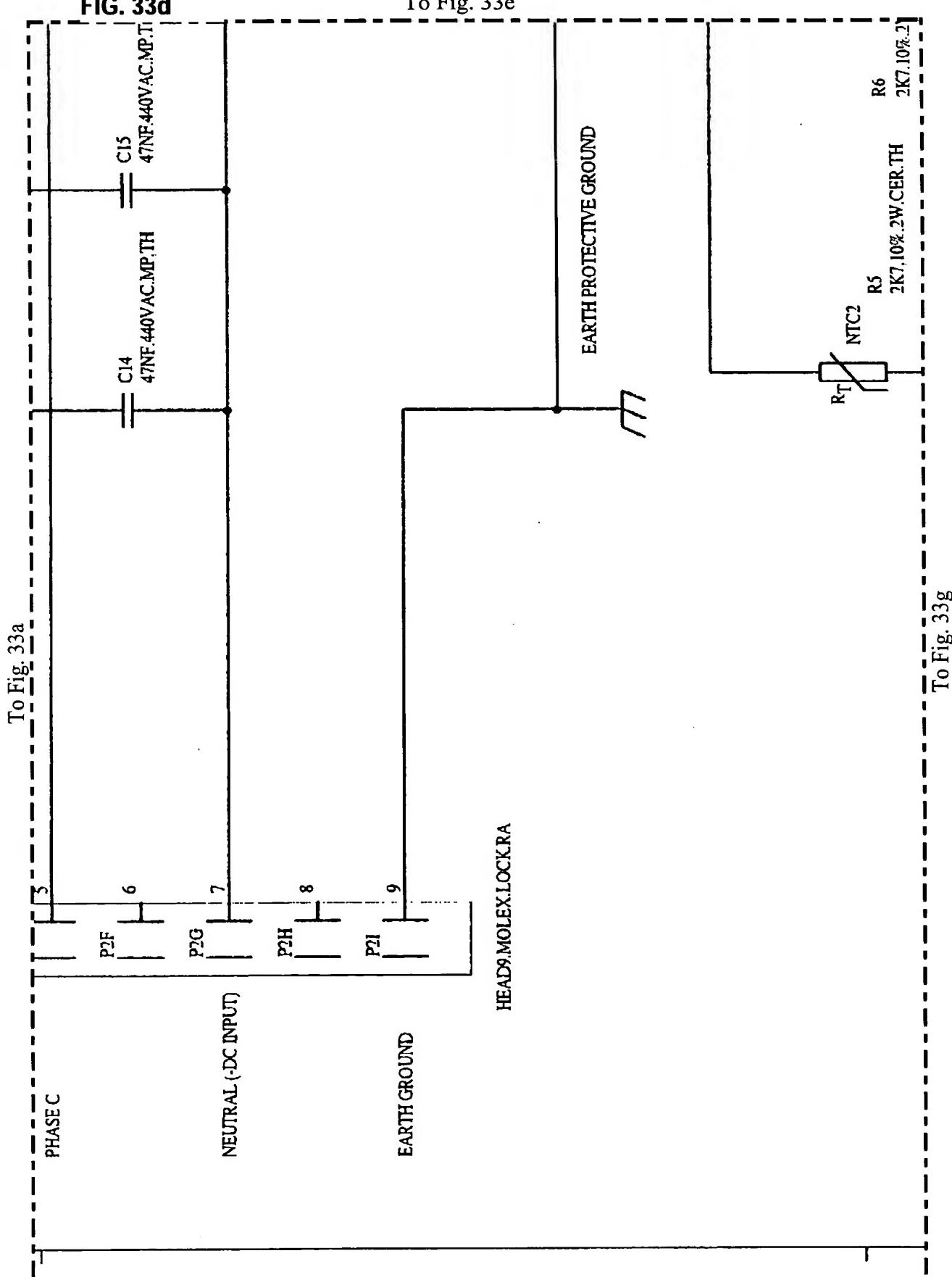
To Fig. 33e

To Fig. 33a

FIG. 33c



**FIG. 33d**



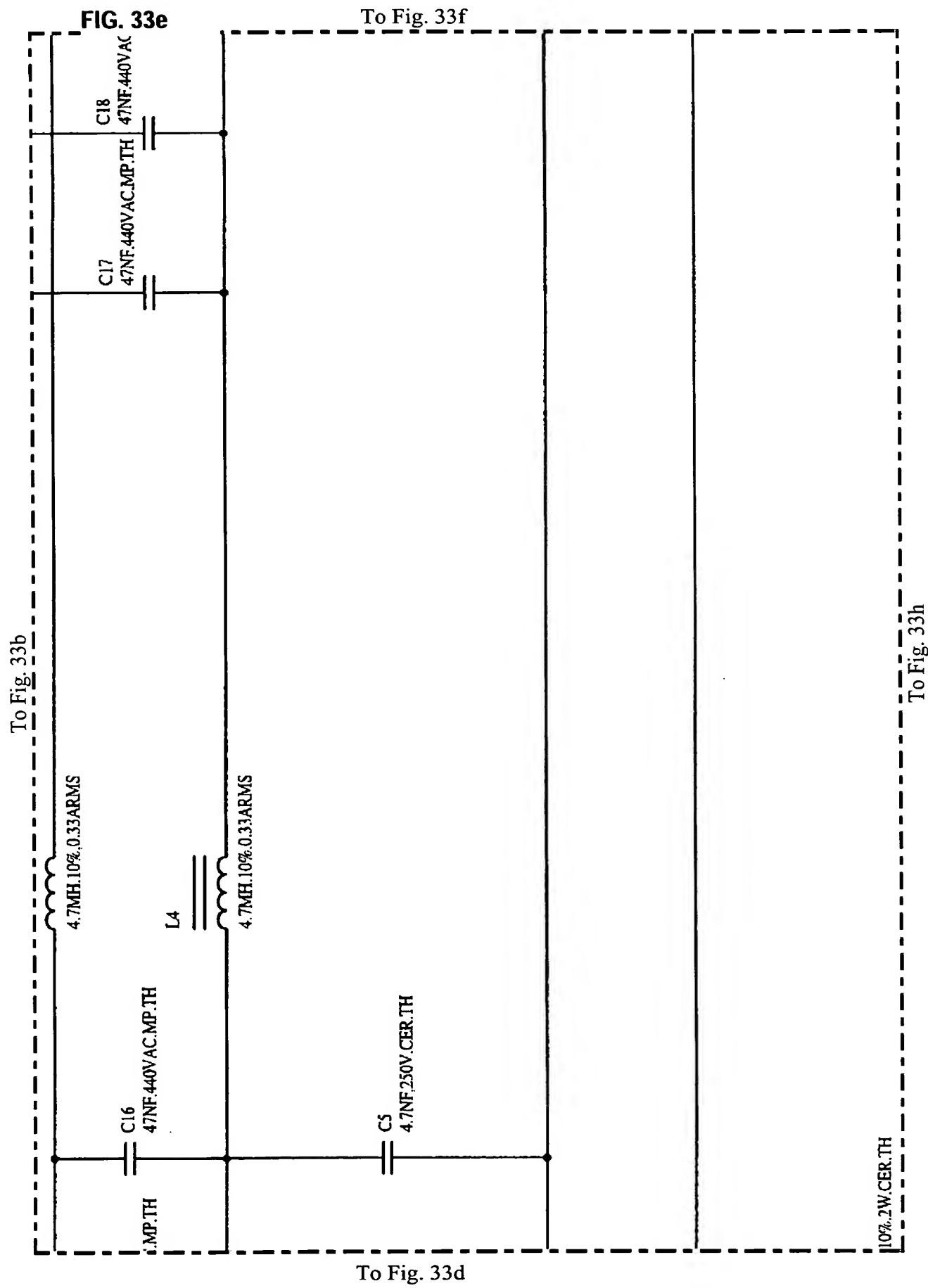
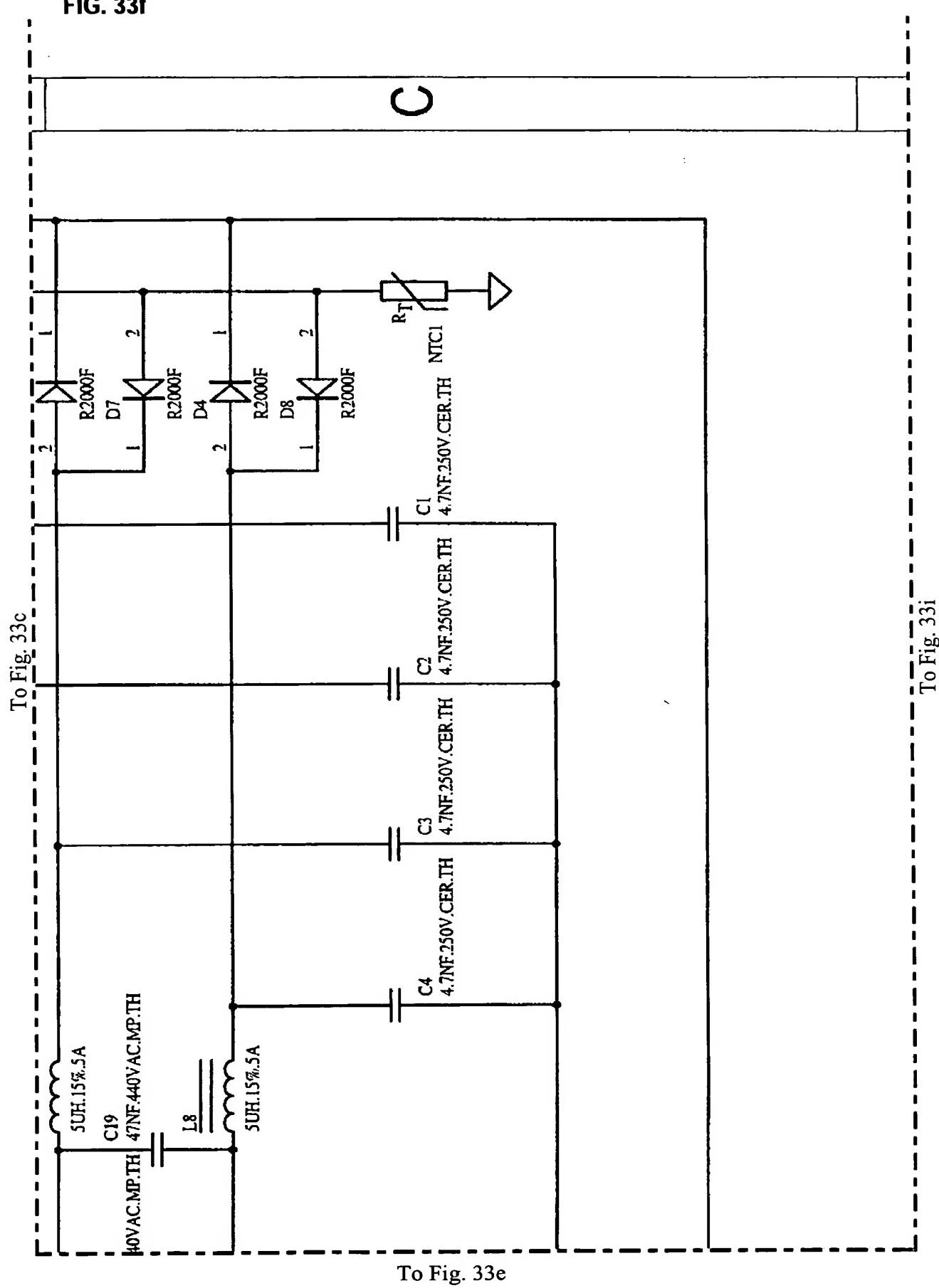
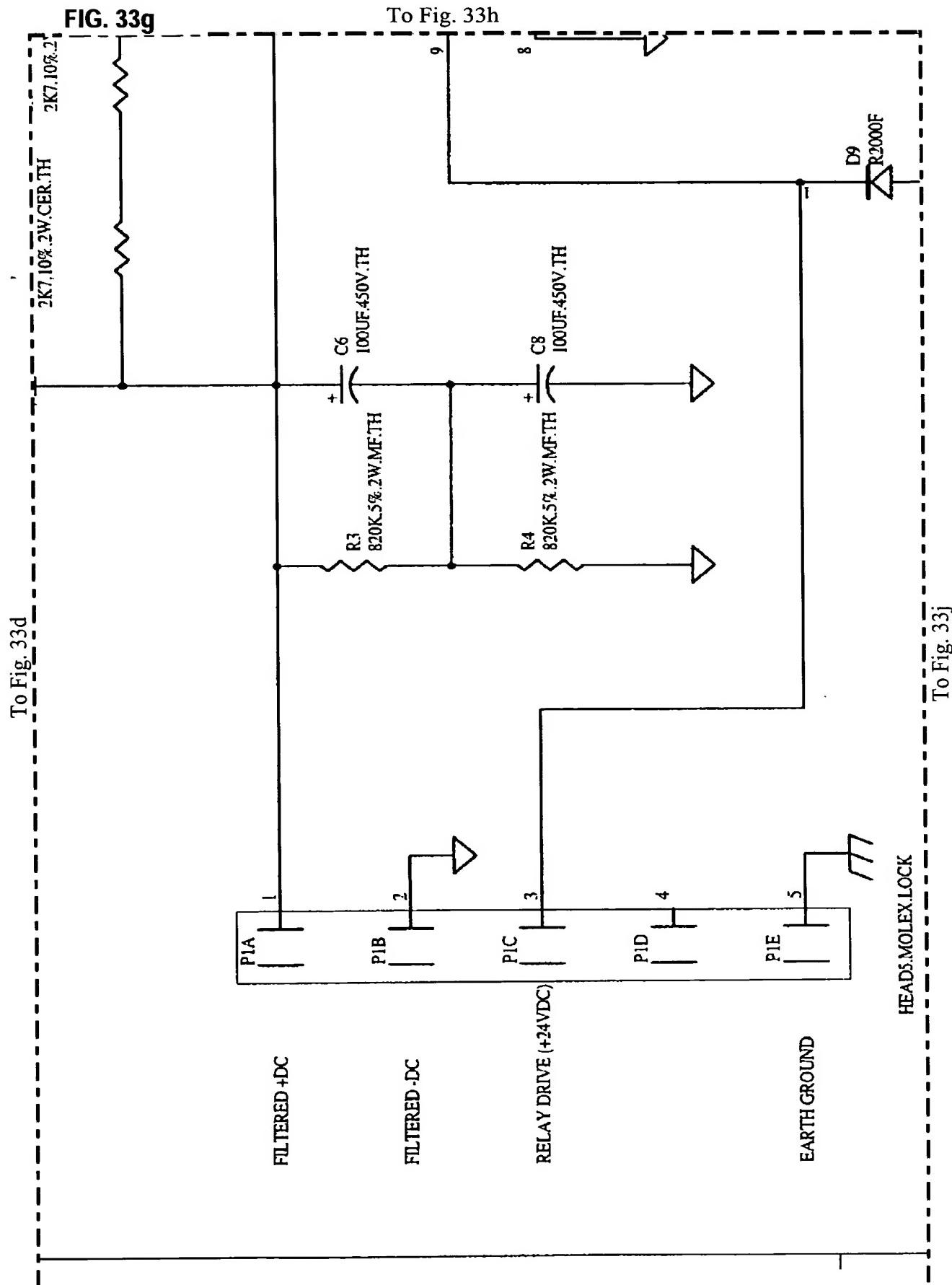


FIG. 33f





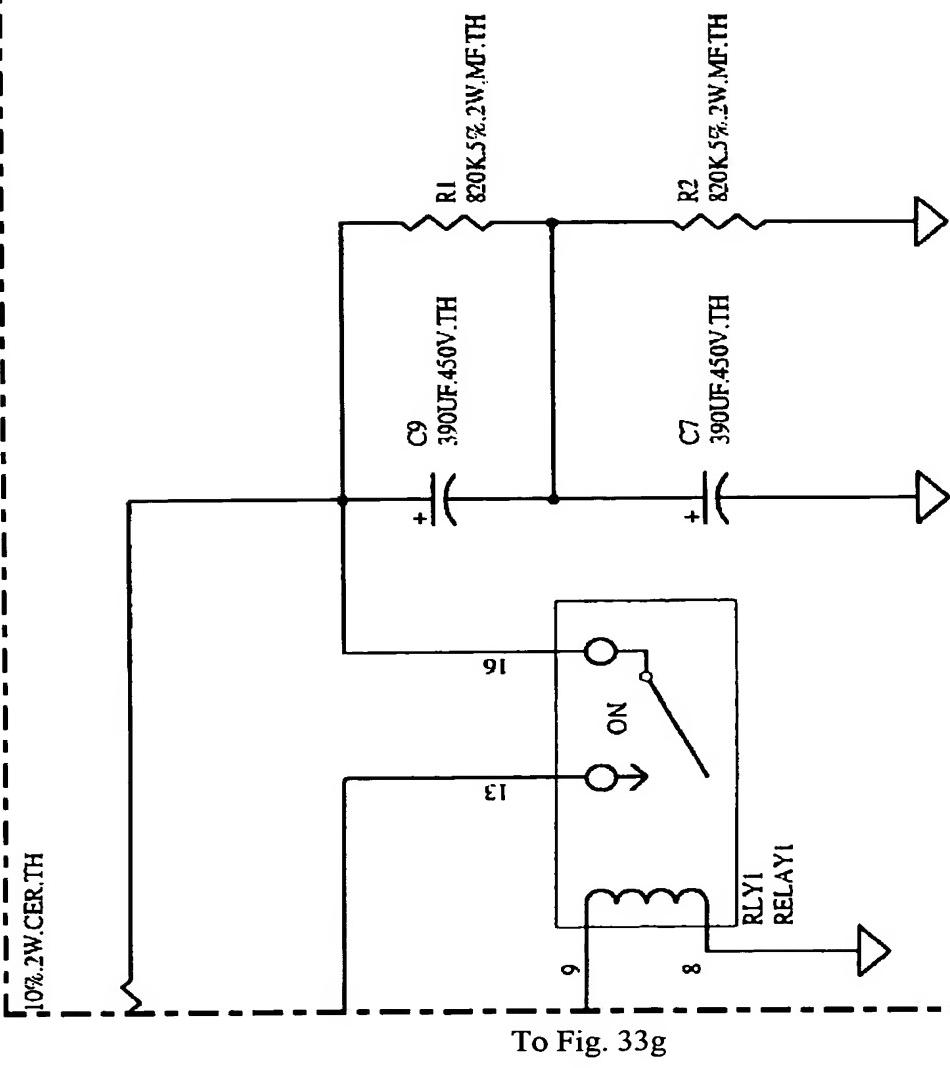
Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

FIG. 33h

To Fig. 33i

To Fig. 33e

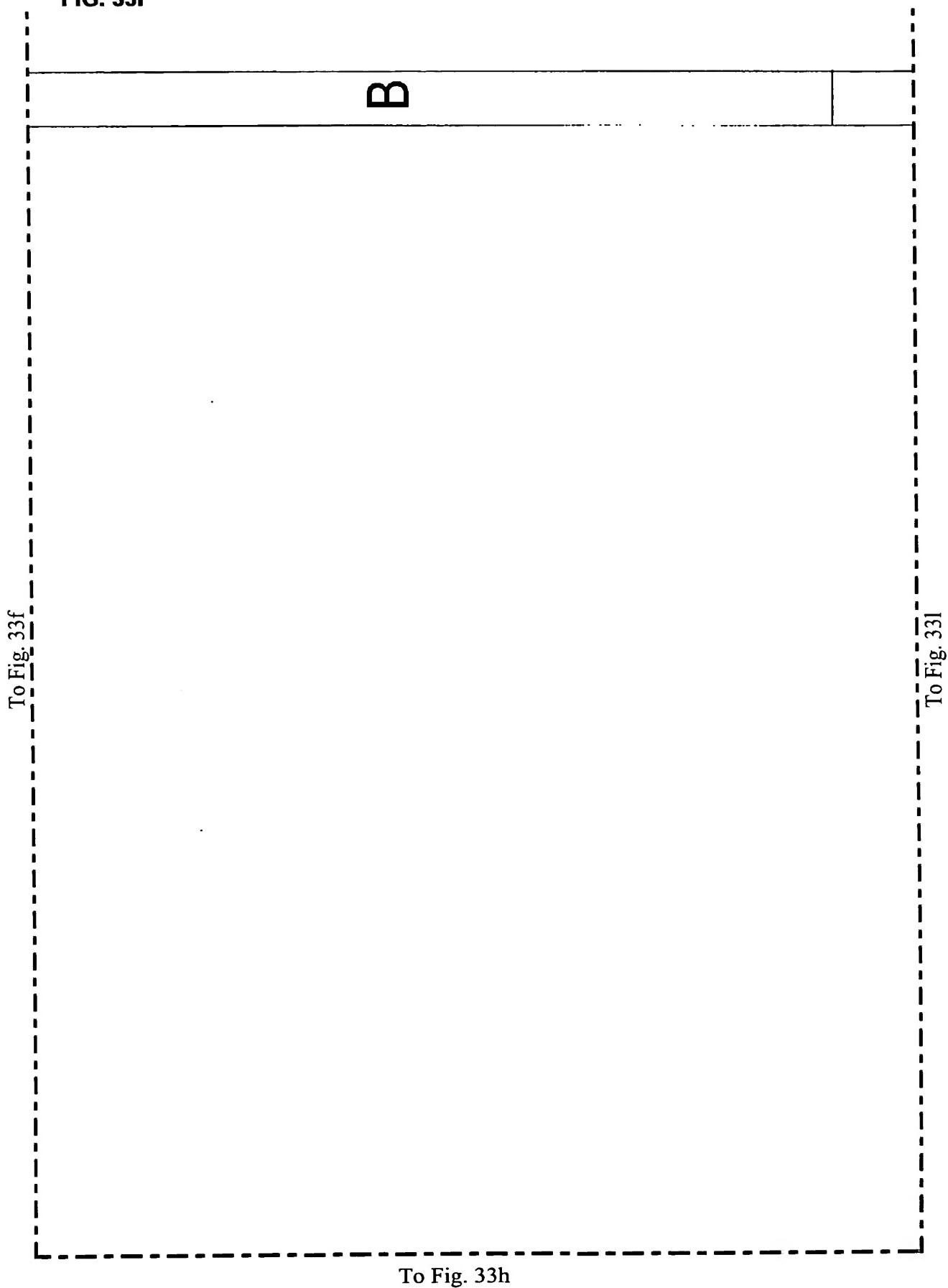


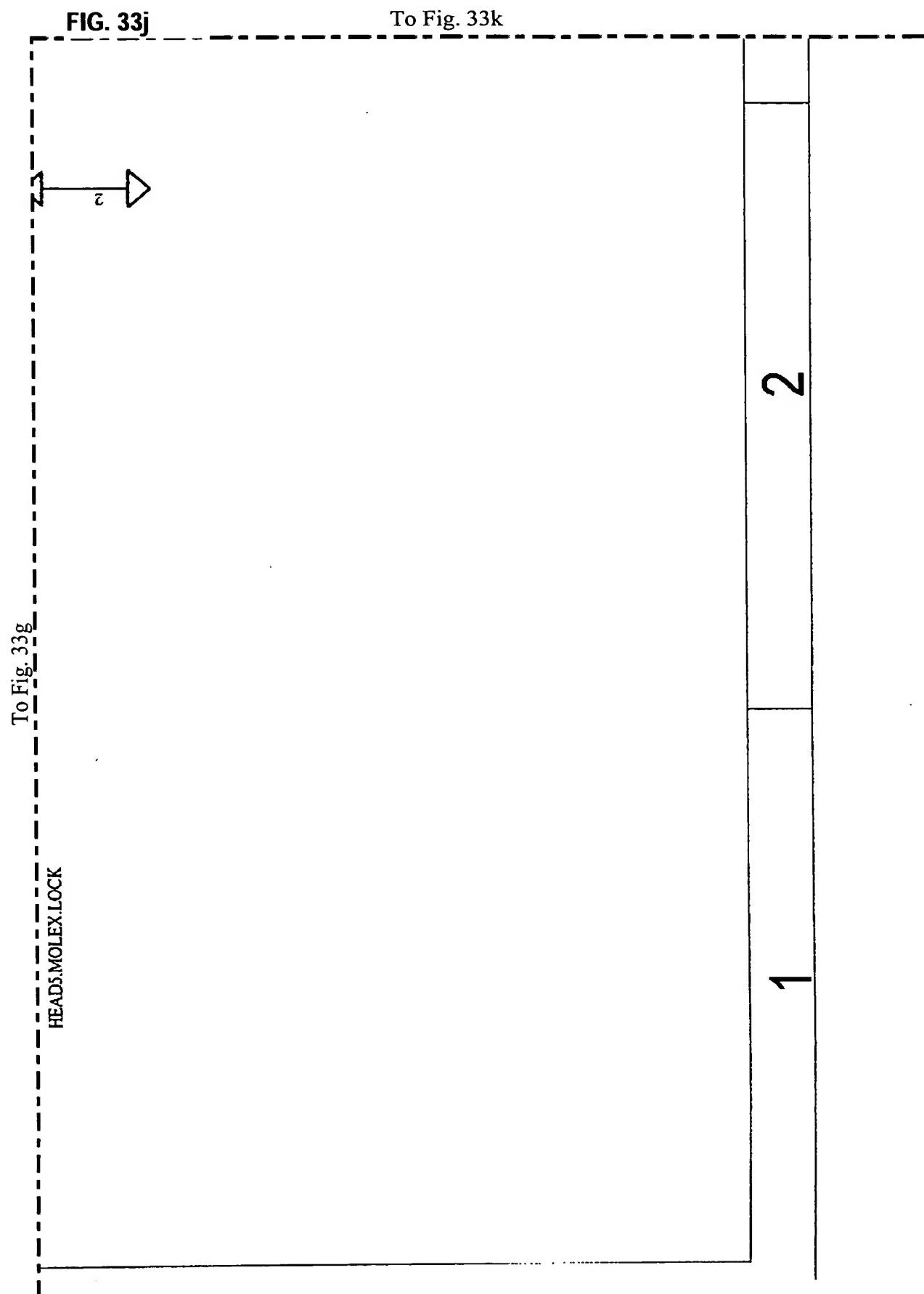
Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 33i**





**FIG. 33k**

To Fig. 33l

To Fig. 33h

**4**

**3**

To Fig. 33j

**FIG. 33I**

To Fig. 33i

A

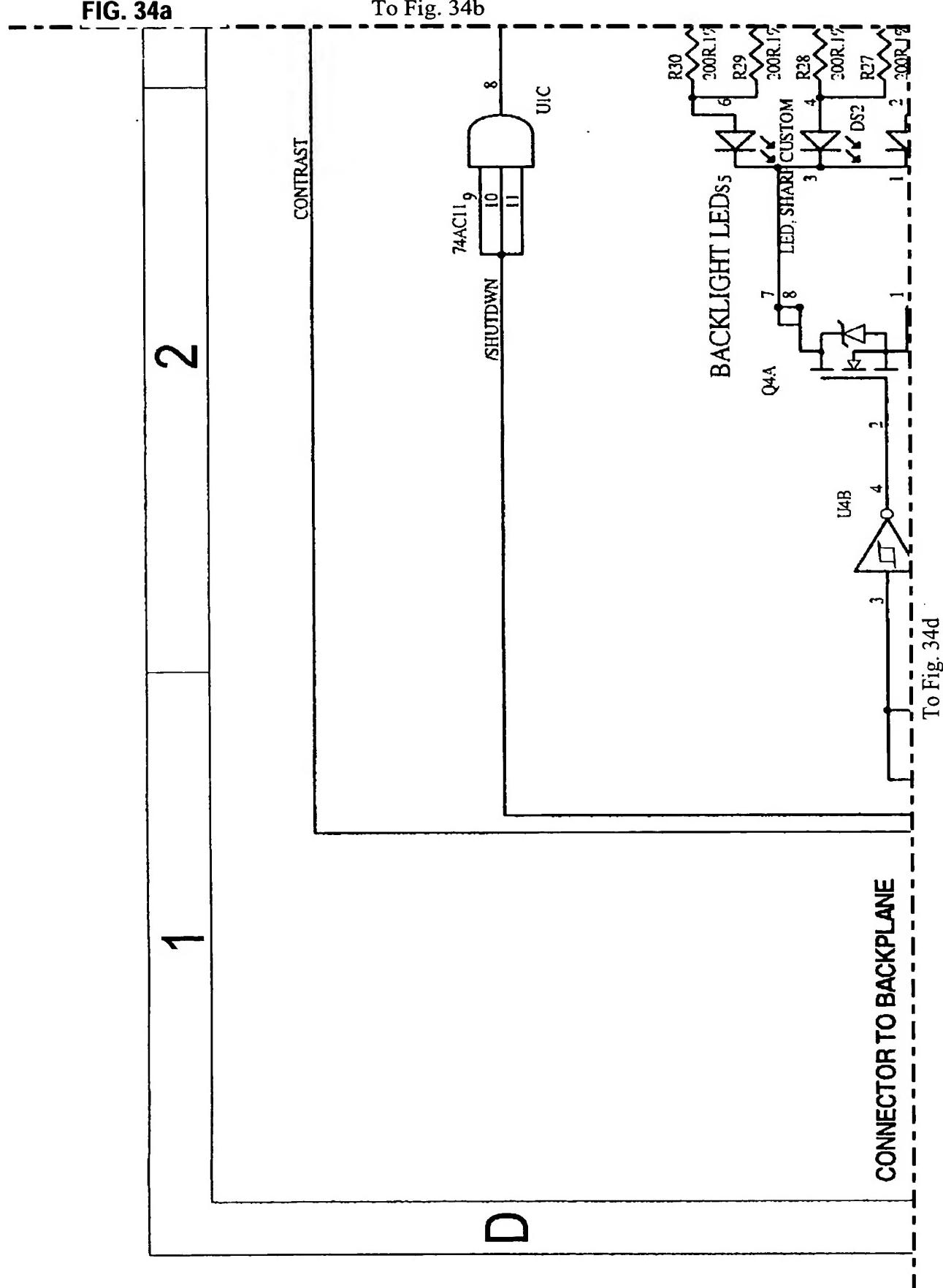
© Copyright Power Measurement Ltd., 1999

6

5

To Fig. 33k

FIG. 34a



To Fig. 34d

CONNECTOR TO BACKPLANE

**FIG. 34b**

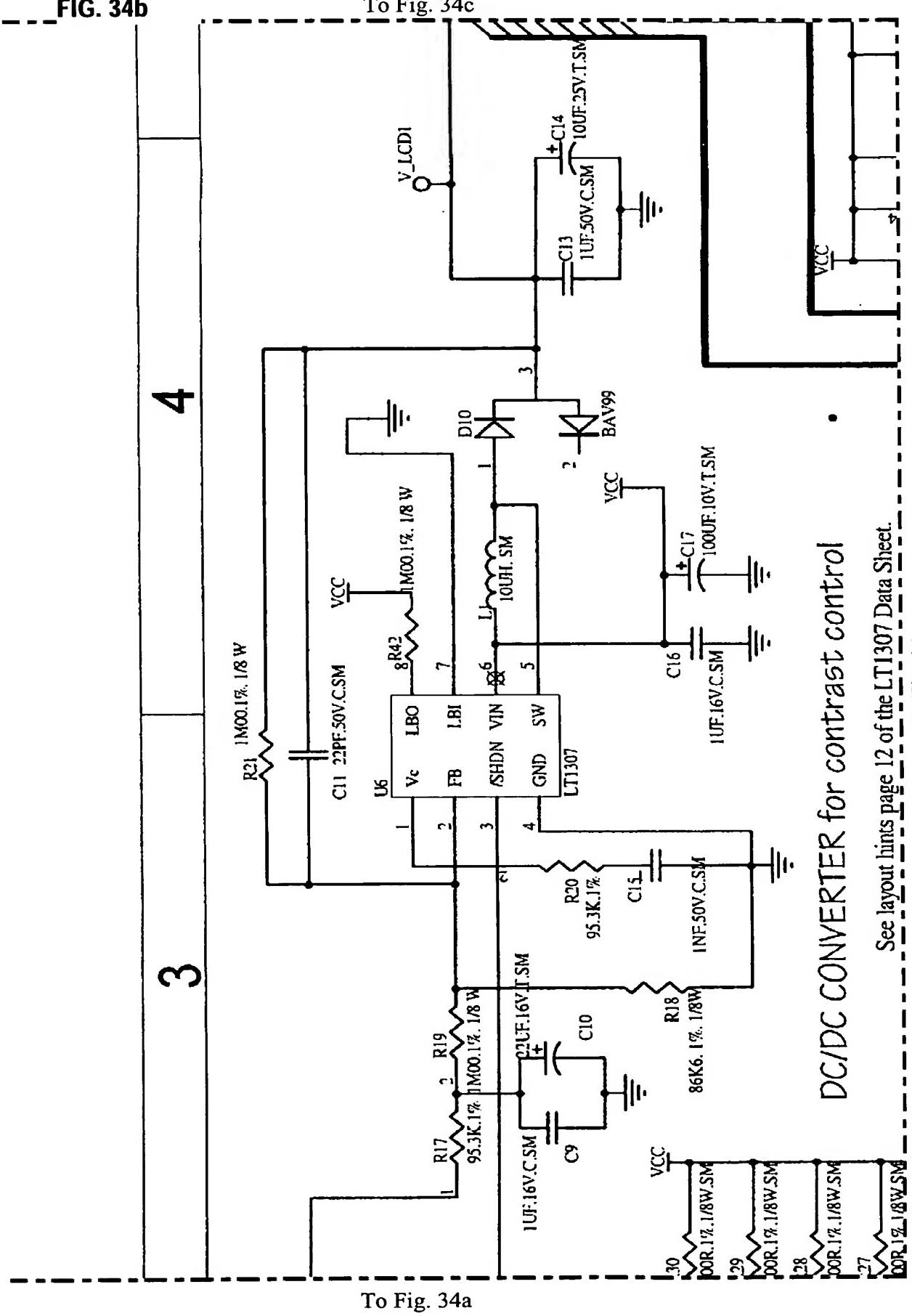
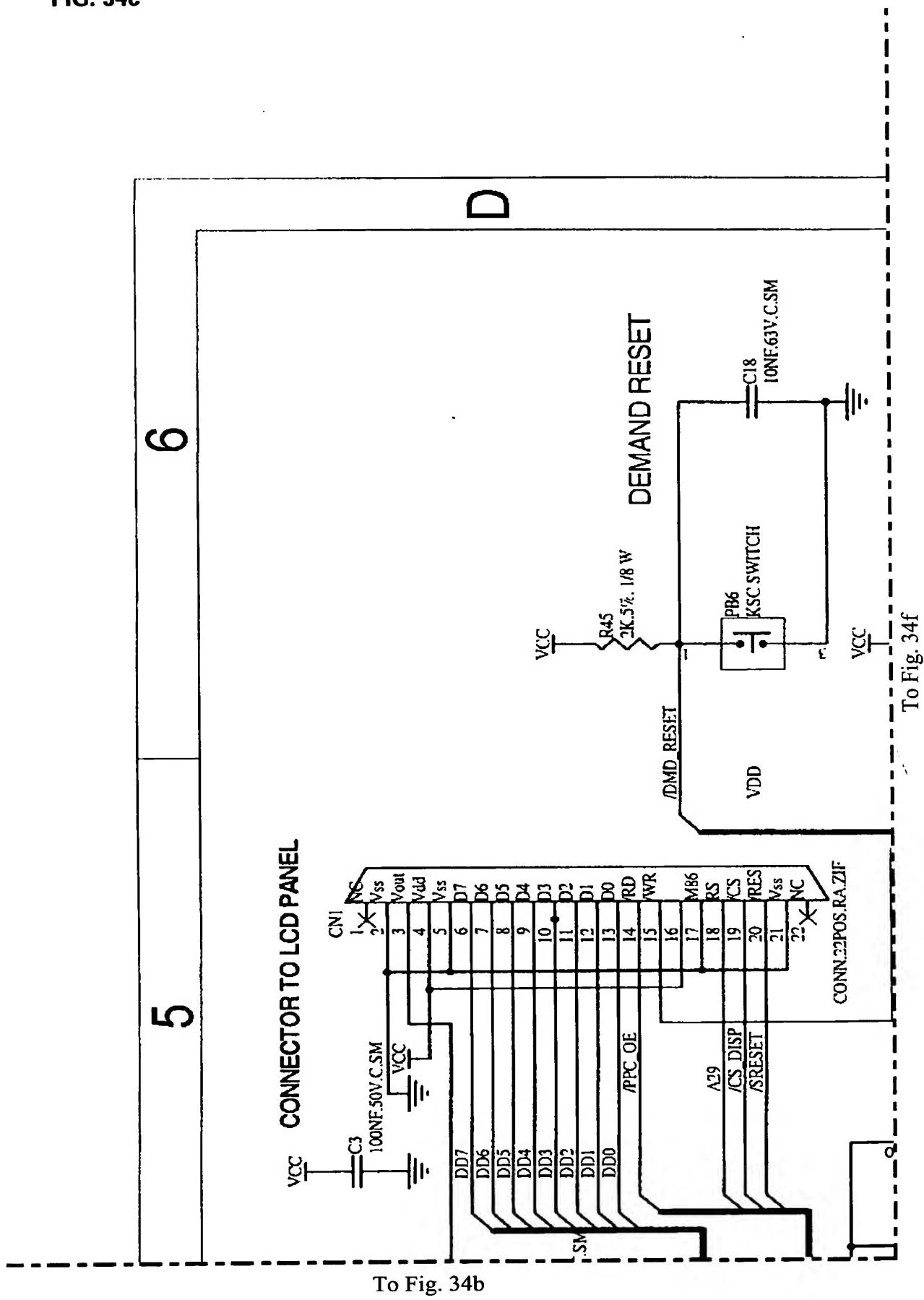
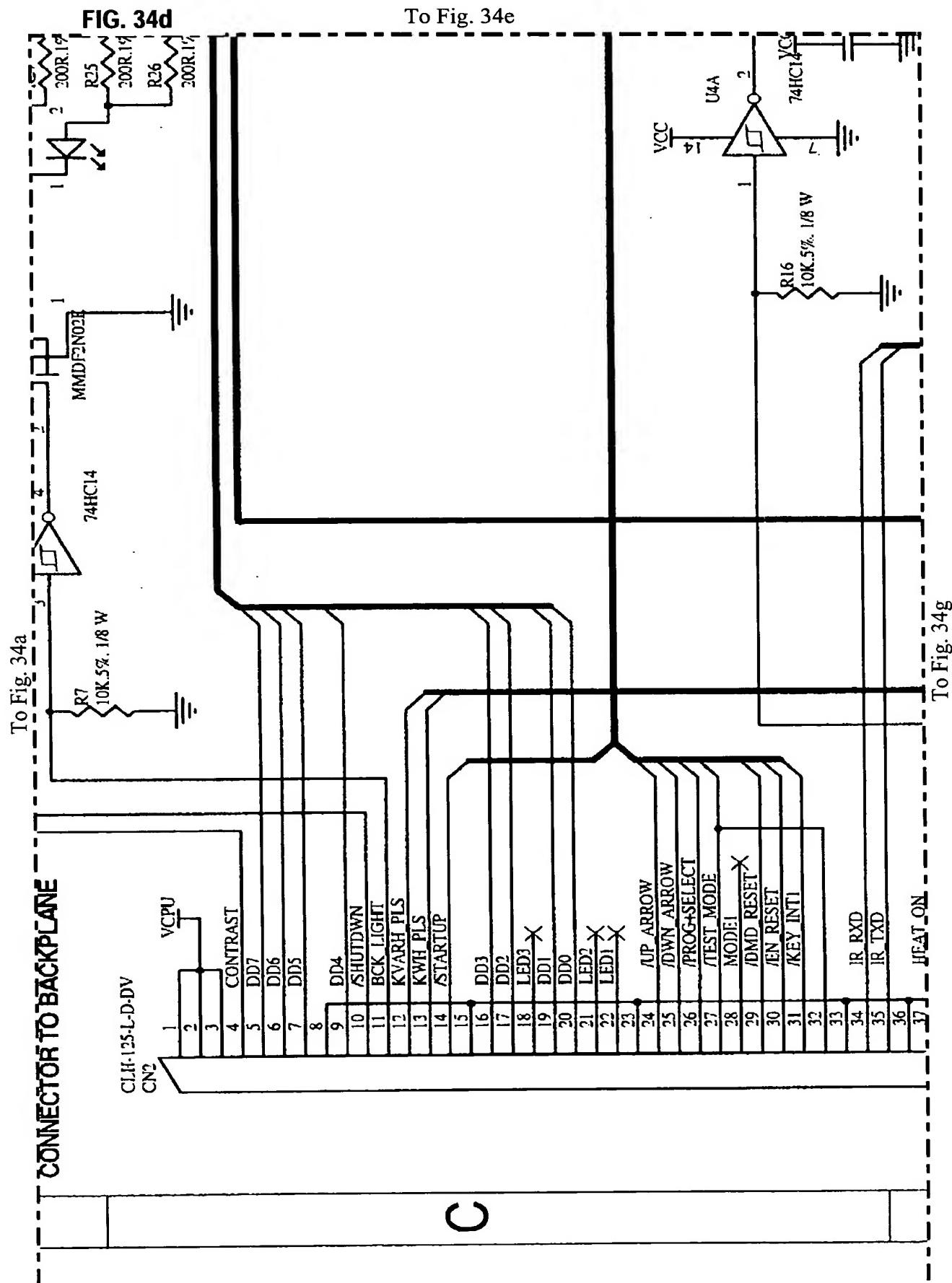
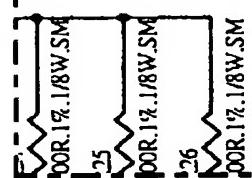


FIG. 34c

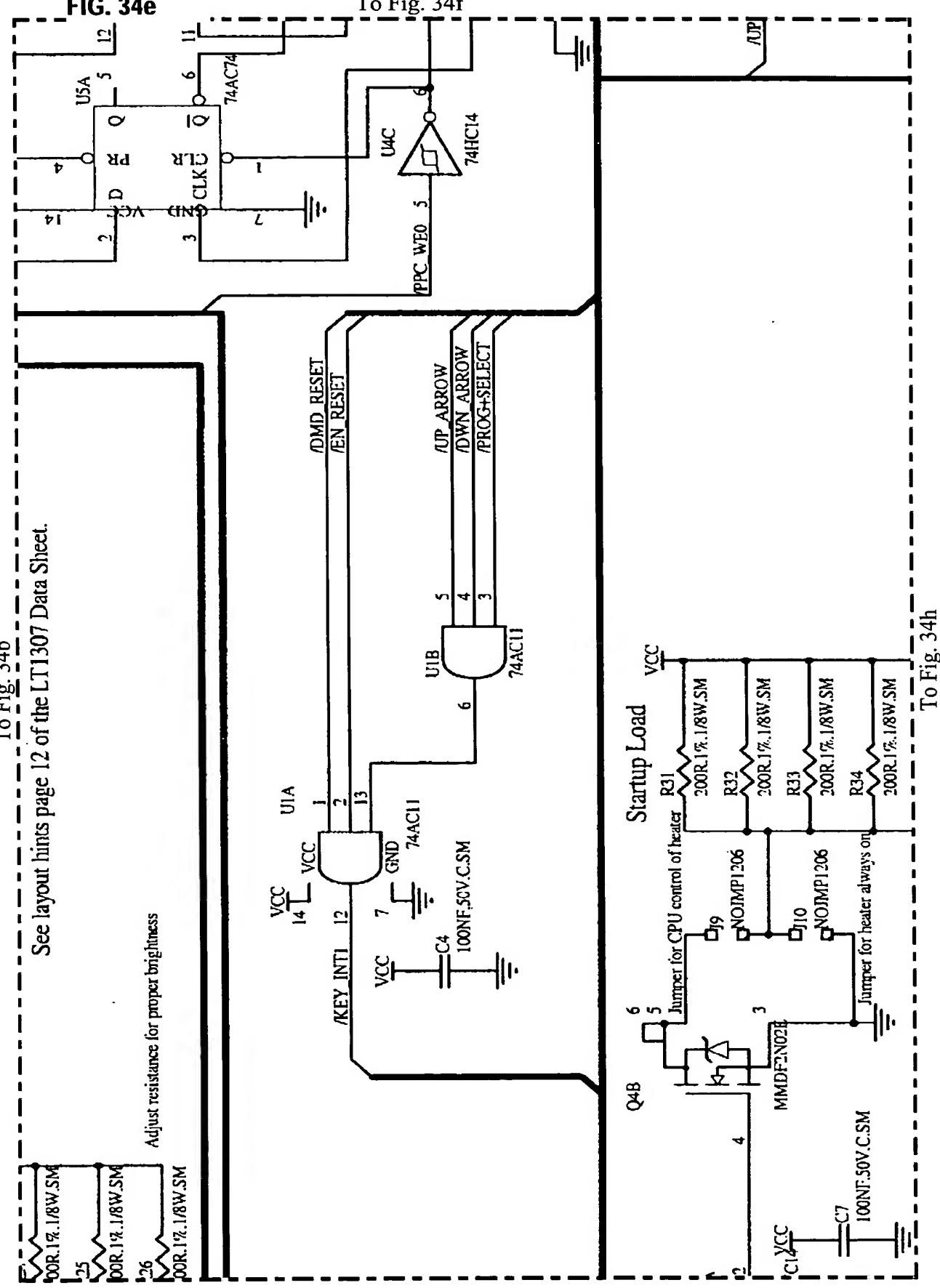




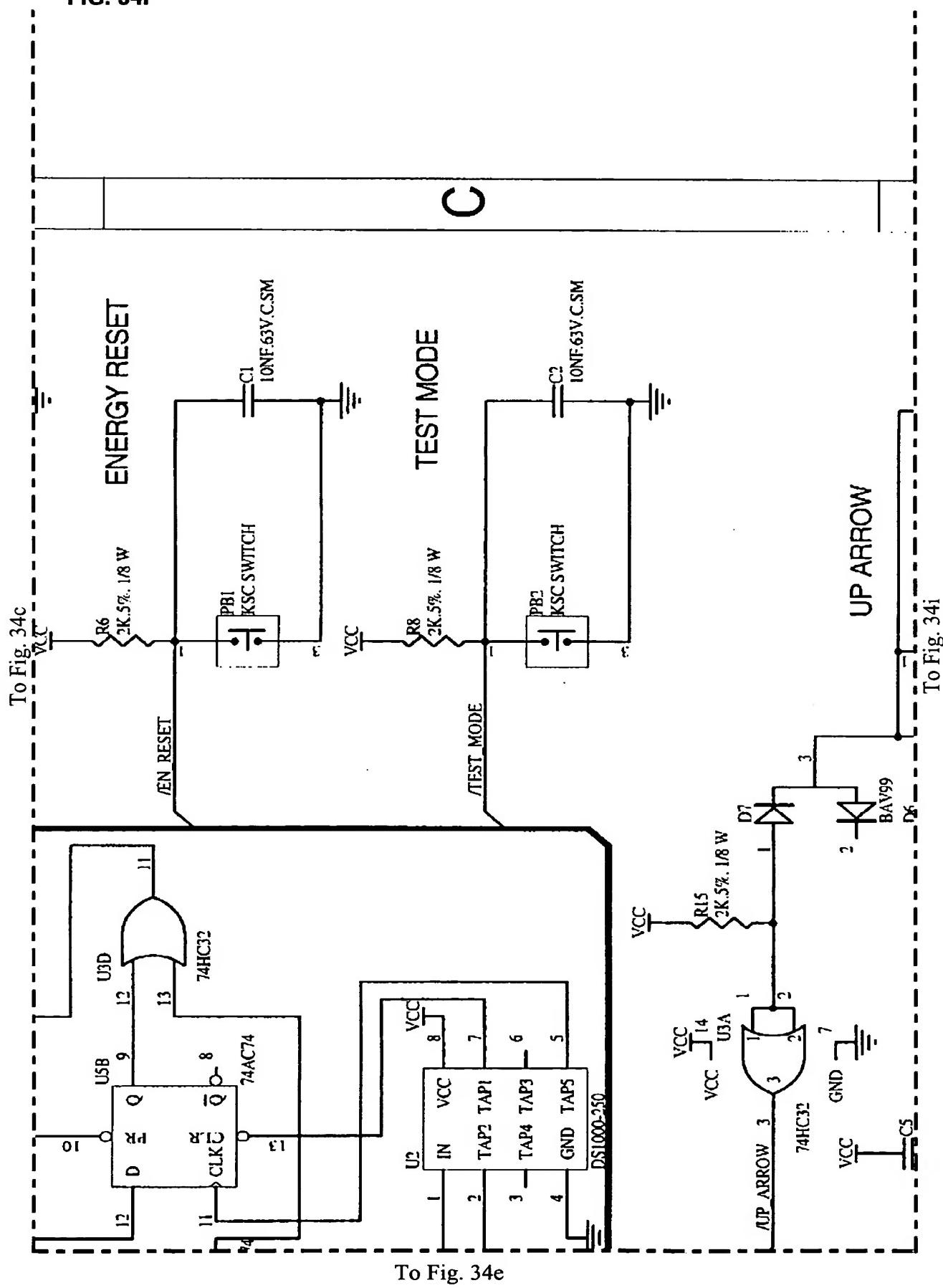
To Fig. 34b  
See layout hints page 12 of the LT1307 Data Sheet.



Adjust resistance for proper brightness



**FIG. 34f**



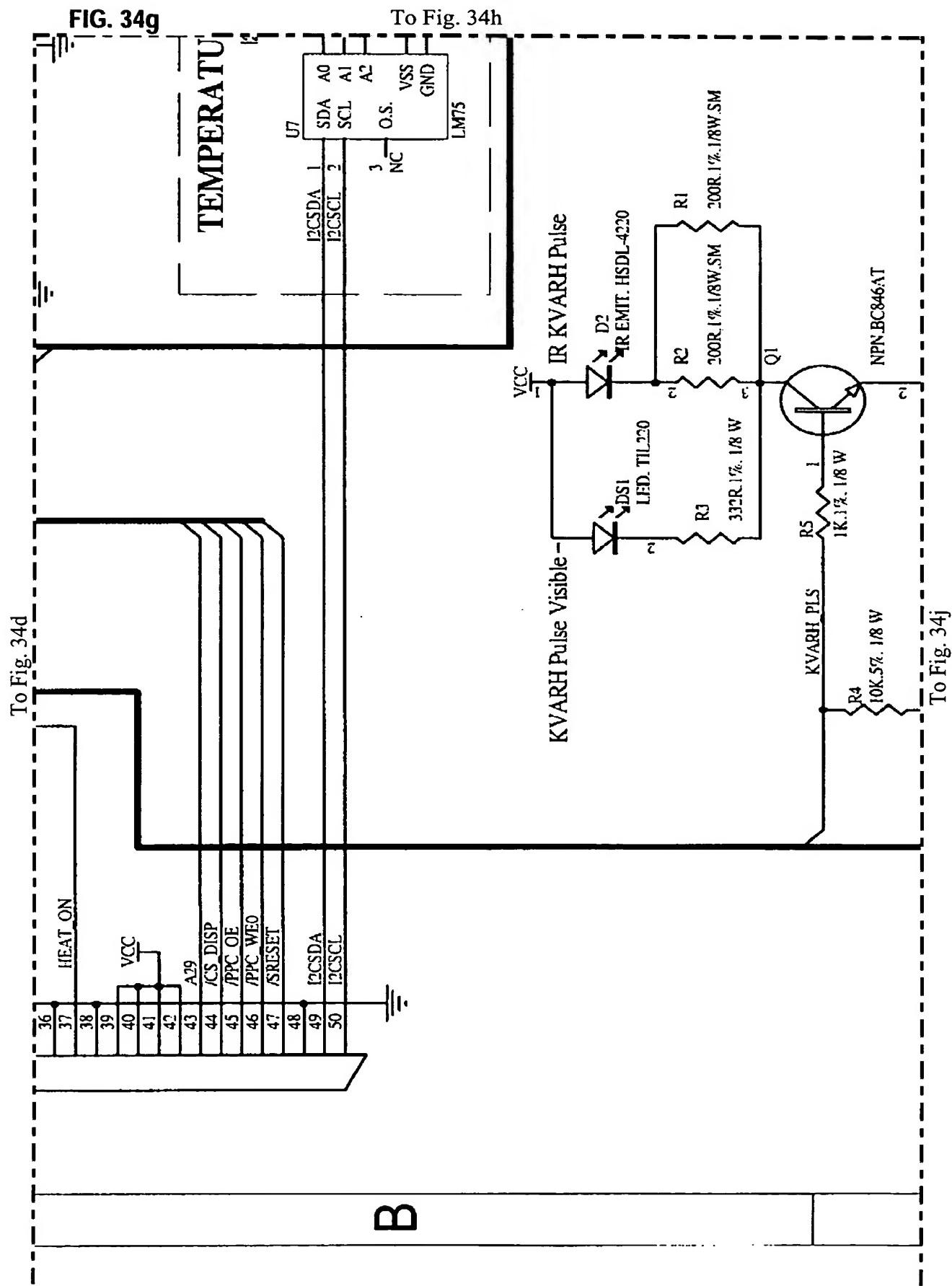


FIG. 34h

To Fig. 34i

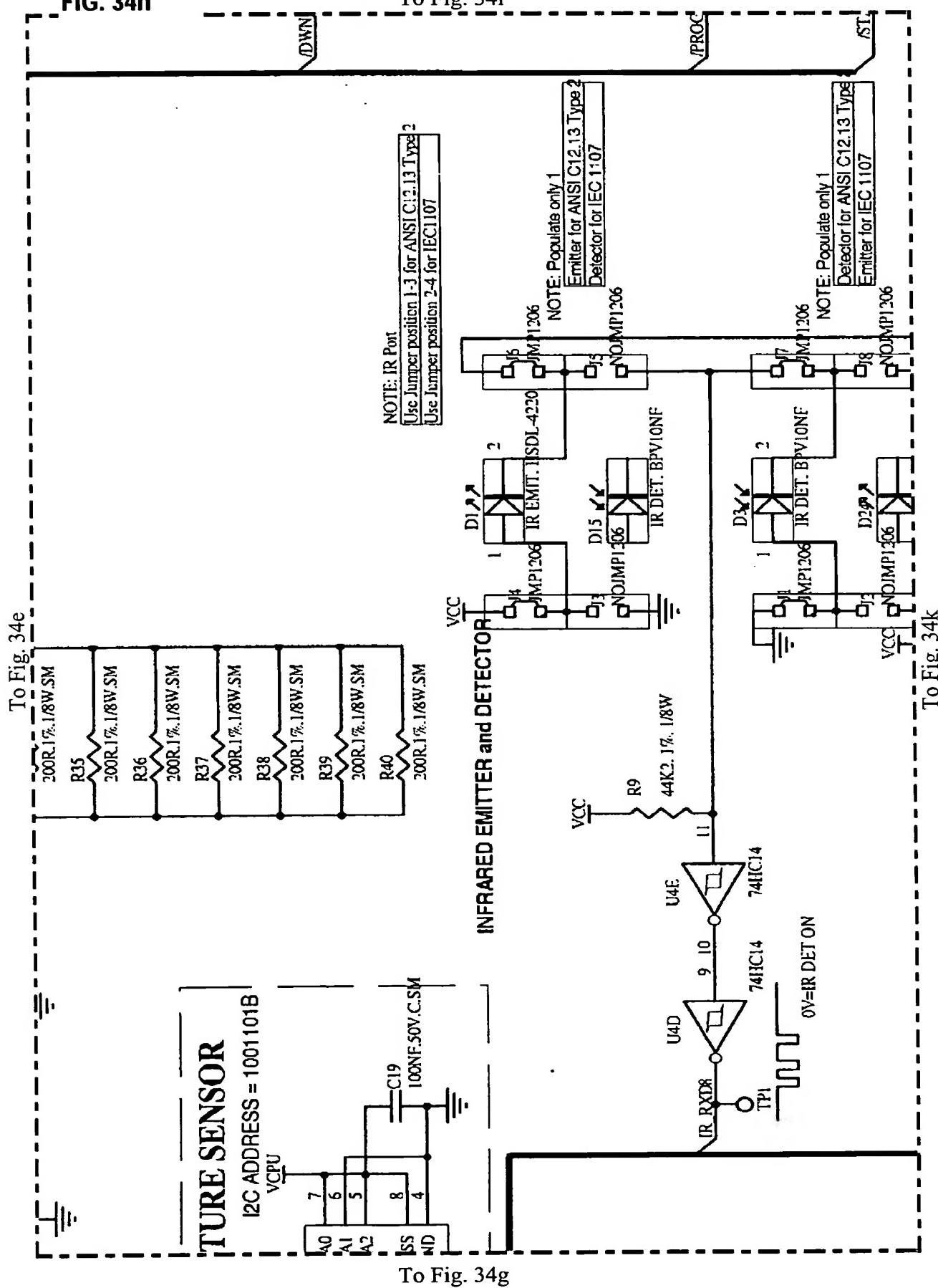
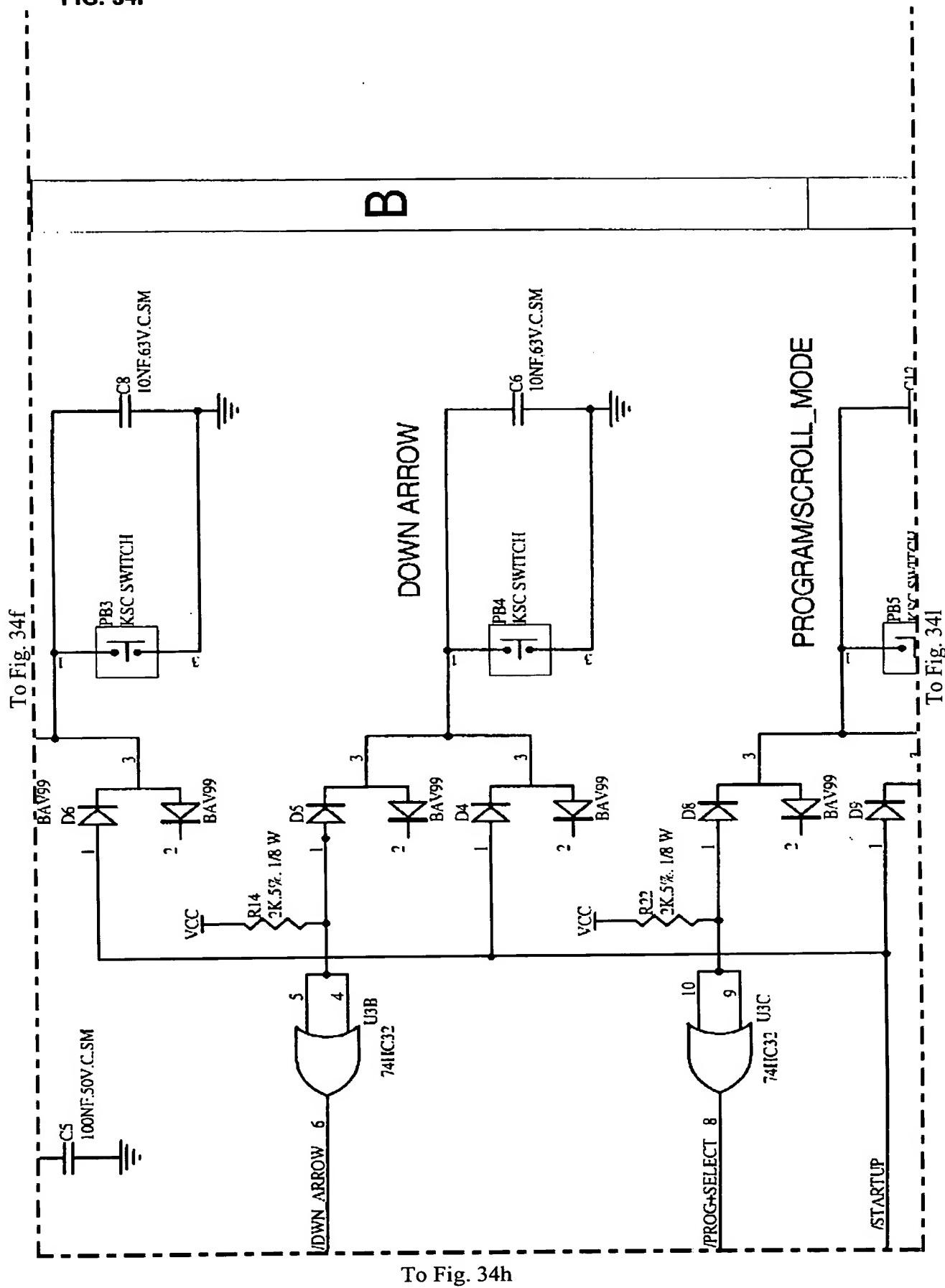
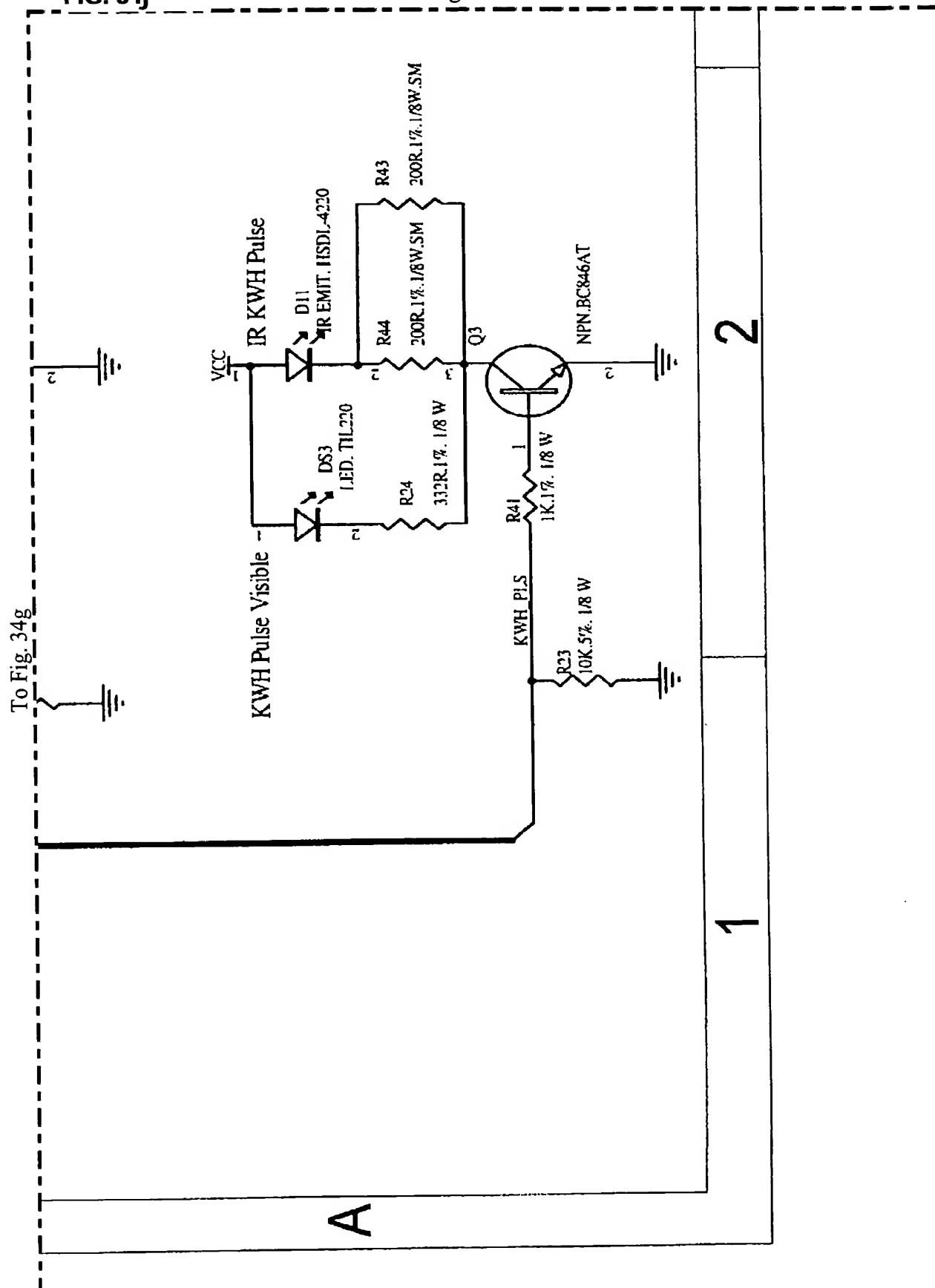


FIG. 34i



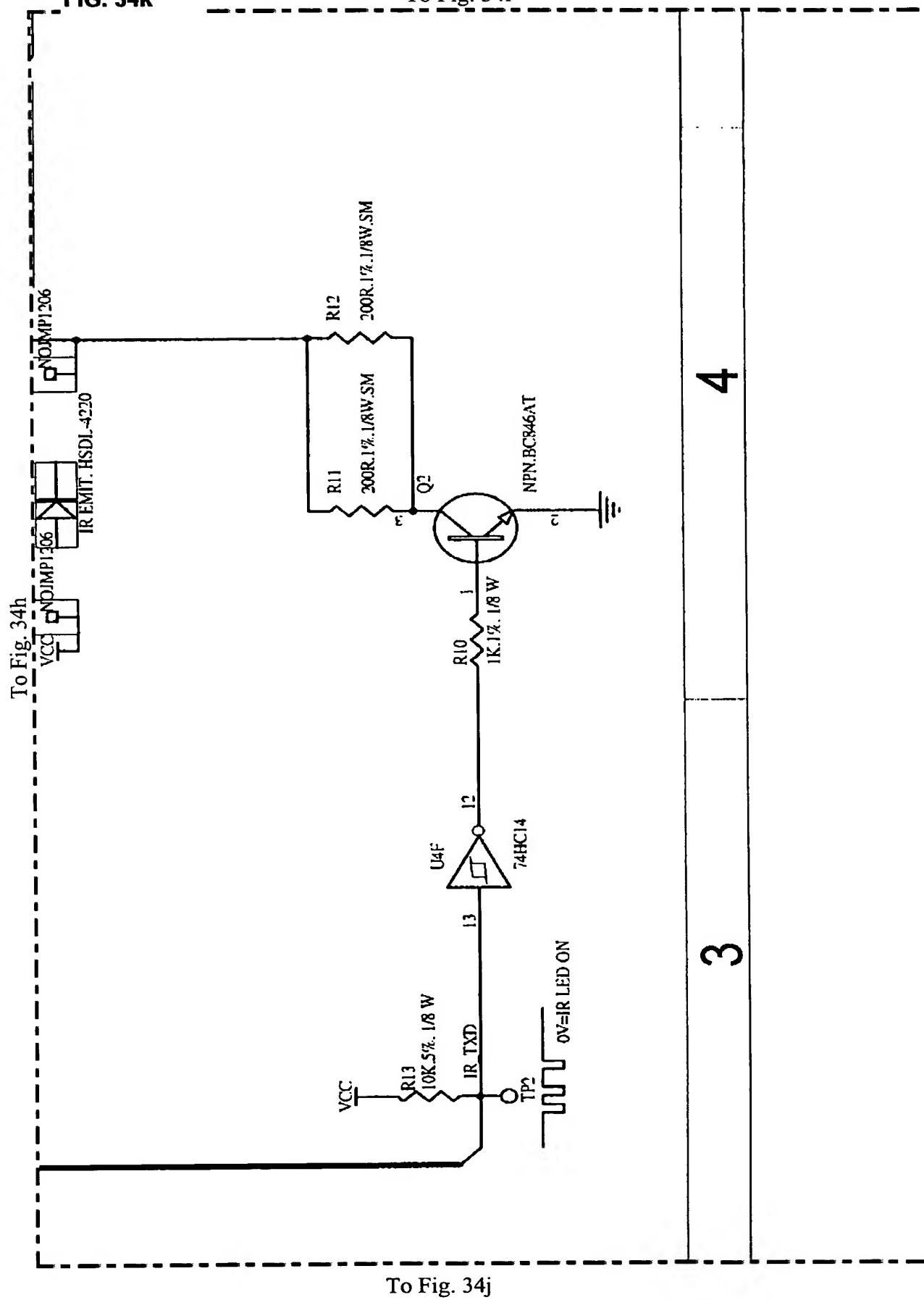
**FIG. 34j**

To Fig. 34k



**FIG. 34k**

To Fig. 341



**FIG. 34I**

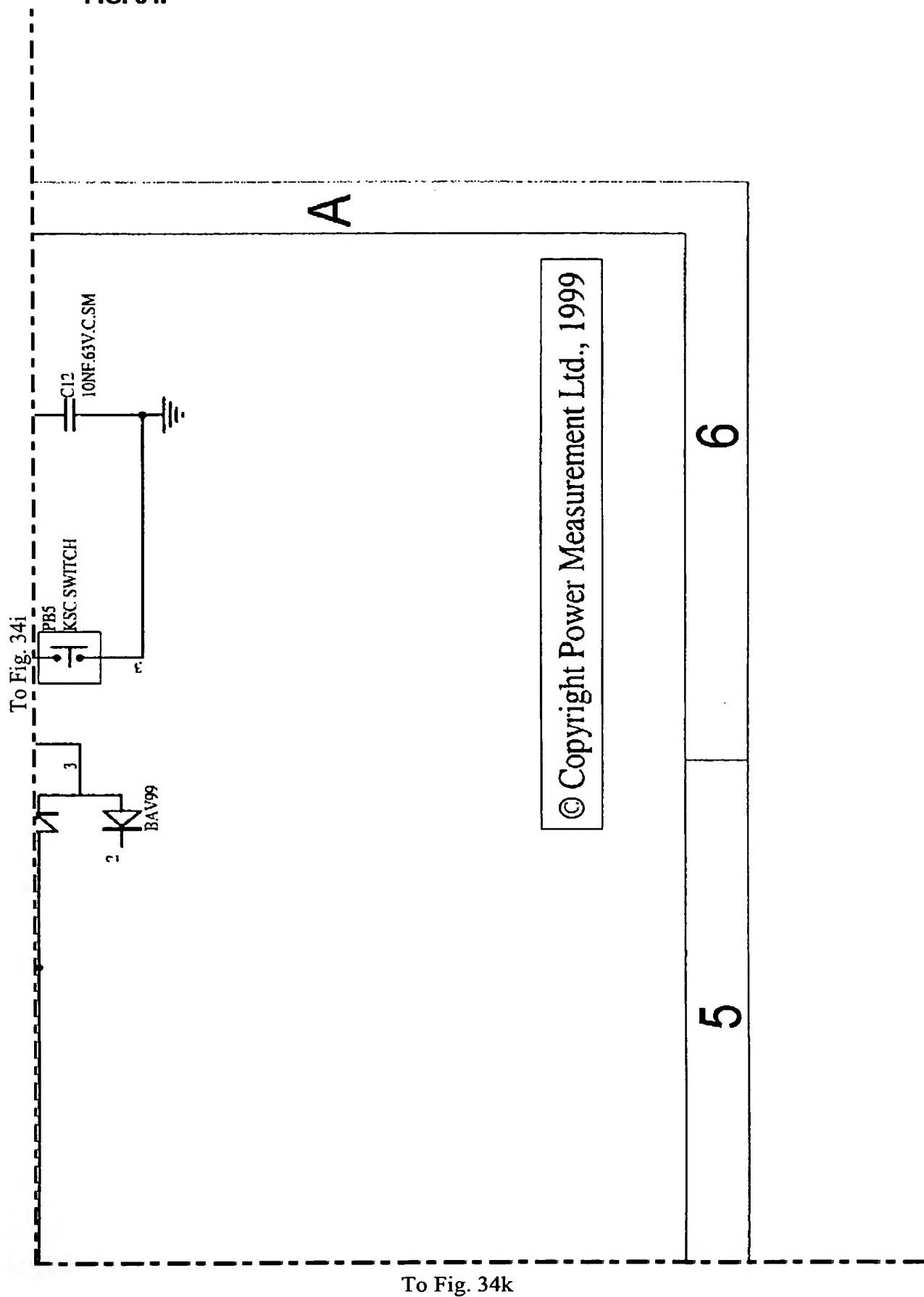
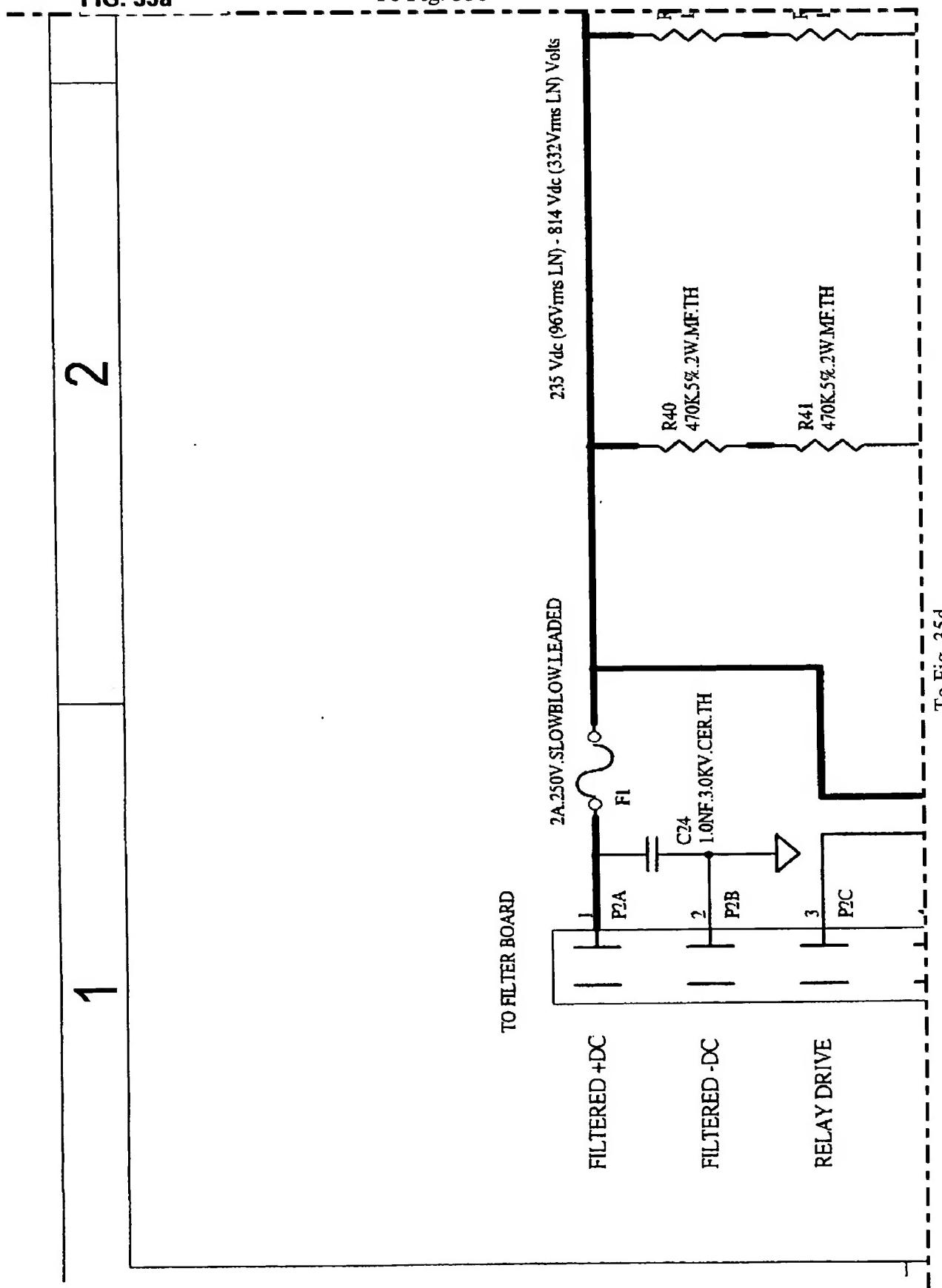


FIG. 35a

To Fig. 35b



To Fig. 35d

**FIG. 35b**

To Fig. 35c

4

3

Maintain clearances \*\* high voltages \*\*  
bits

To Fig. 35a

R4  
100K.5% .2W.MF.TH

R3  
100K.5% .2W.MF.TH

R5  
100K.5% .2W.MF.TH  
R34  
8K2.5% .2W.MF.TH

C1  
1.0NF.3.0KV.CER.TH

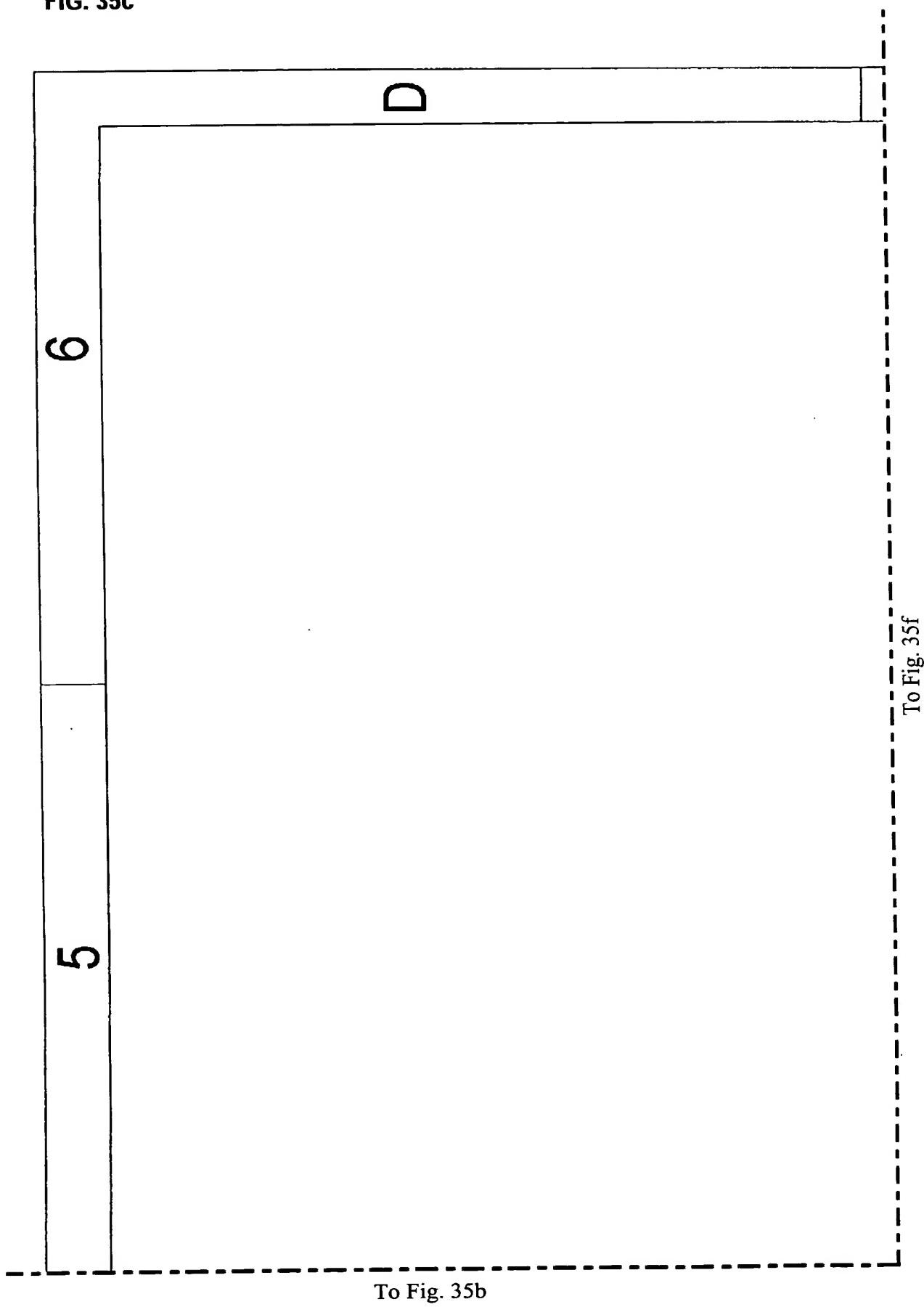
To Fig. 35e

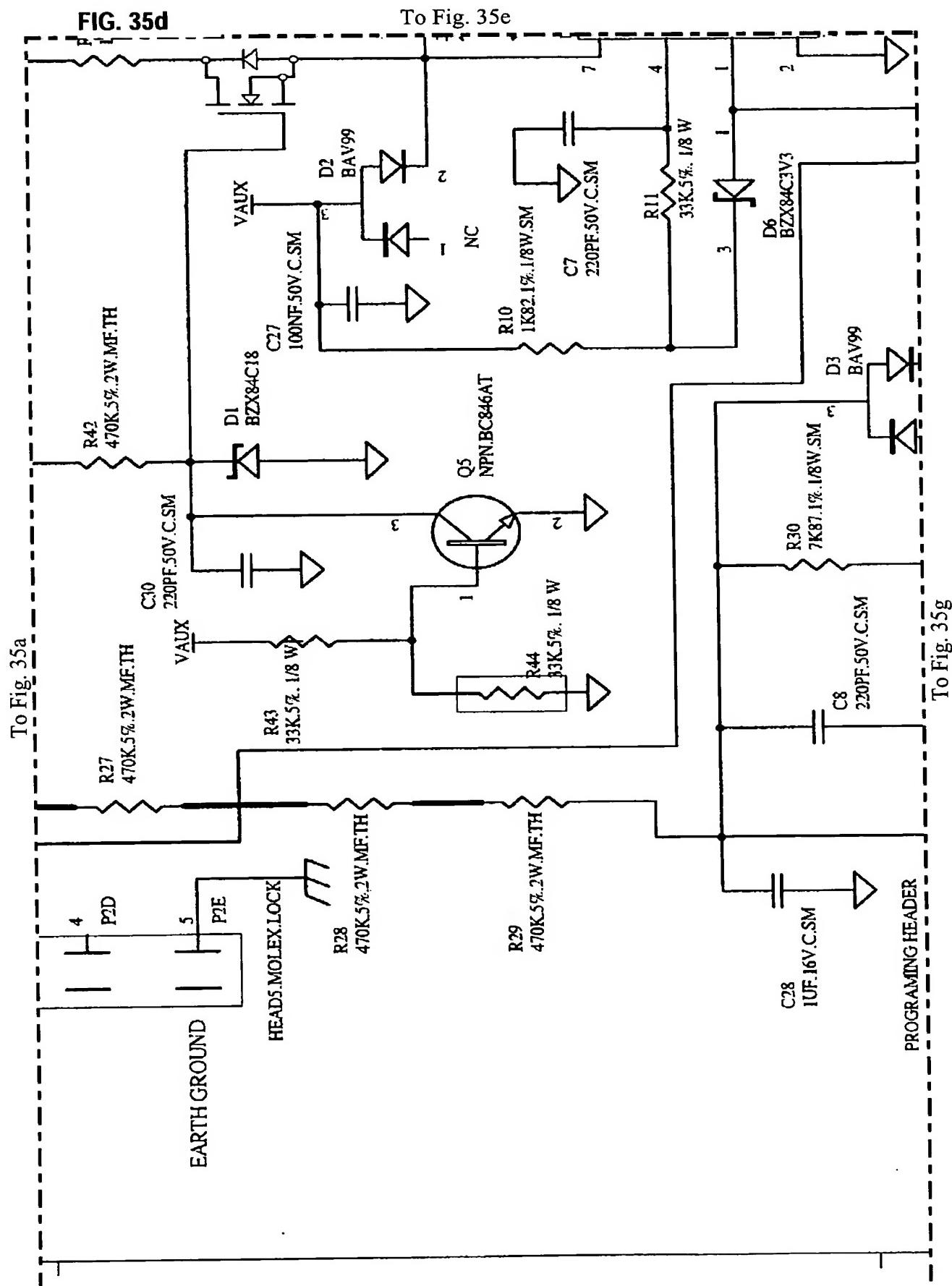
Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 35c**

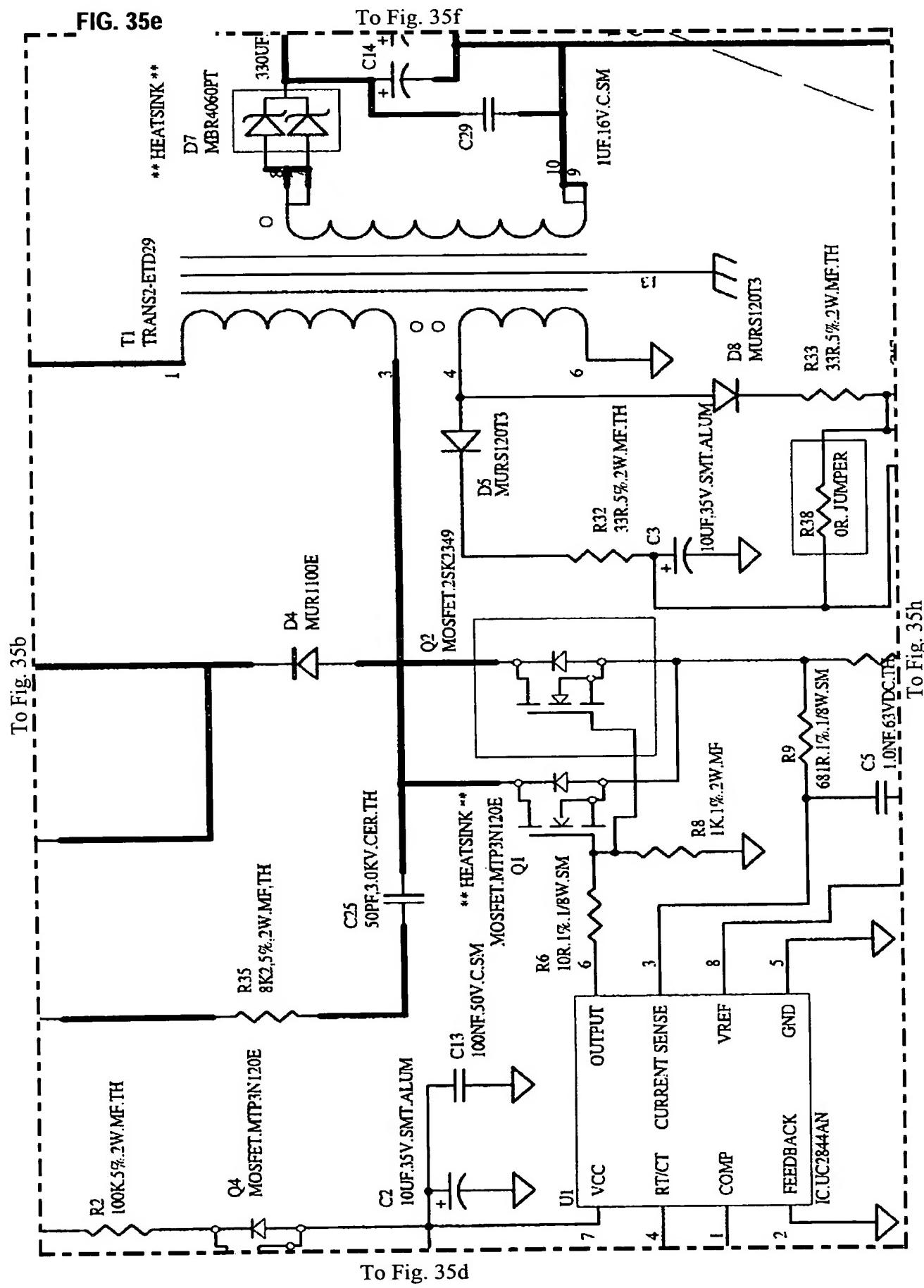




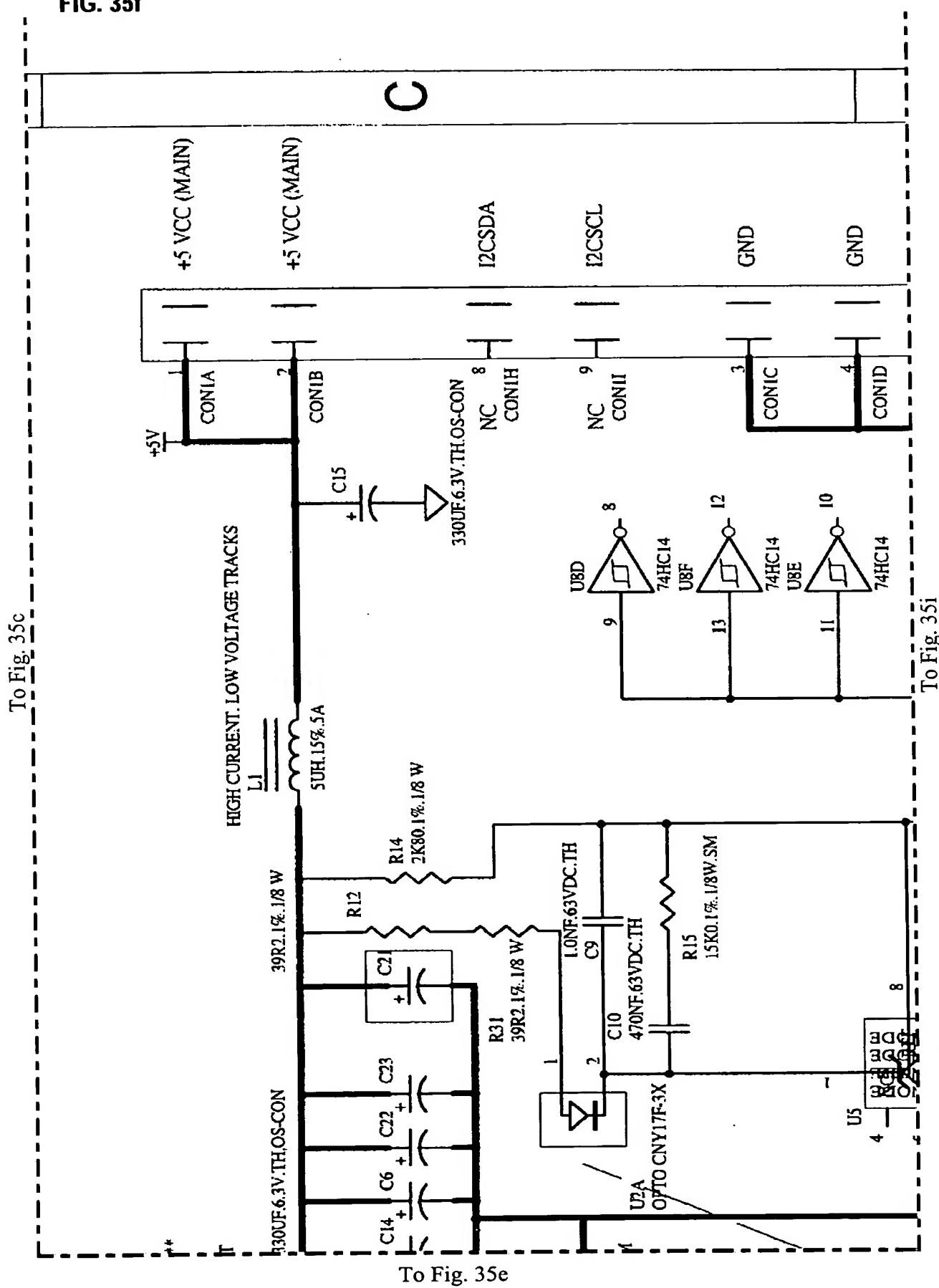
Inventor(s): David W. Giles et al

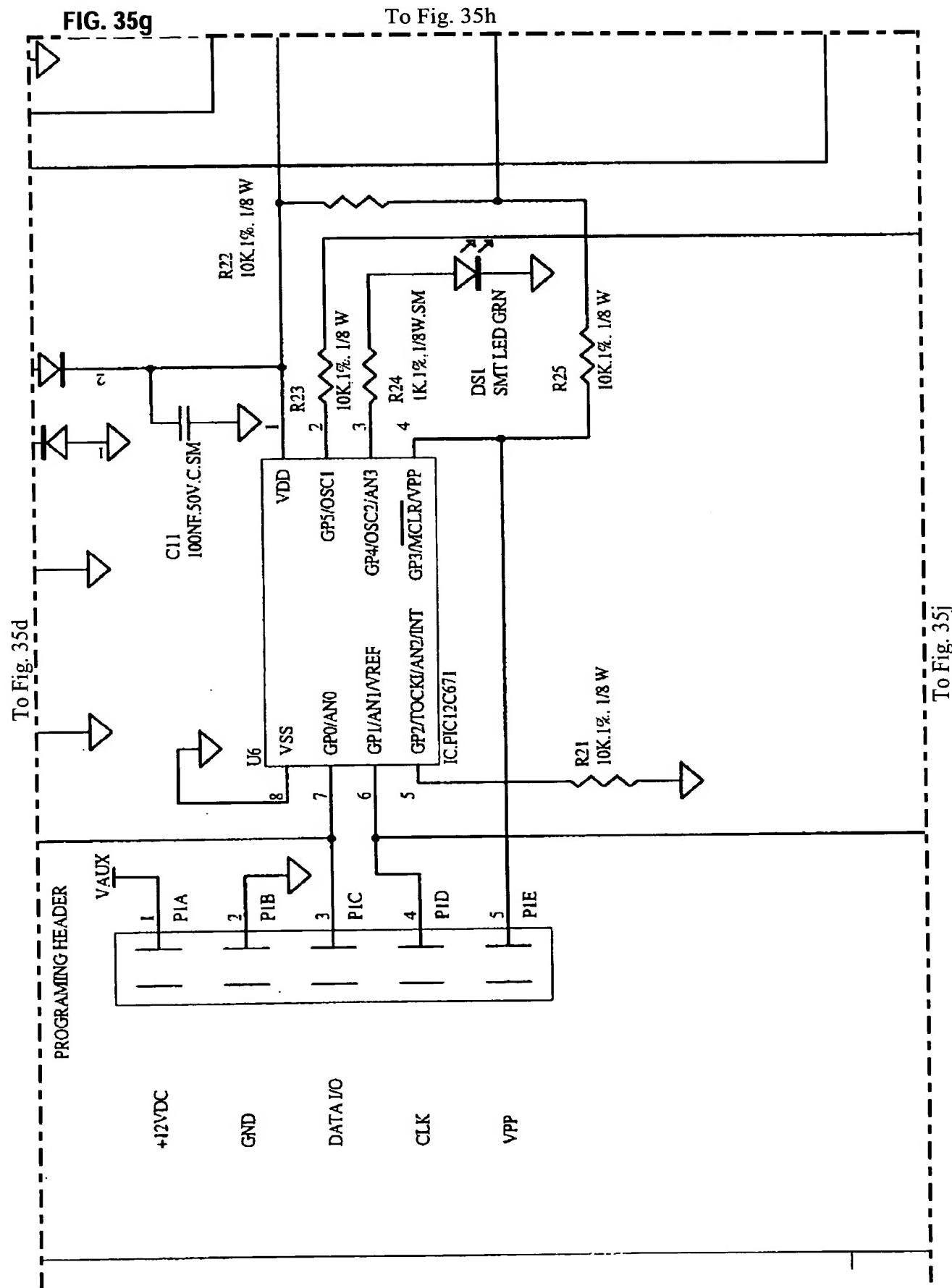
Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 35e**



**FIG. 35f**





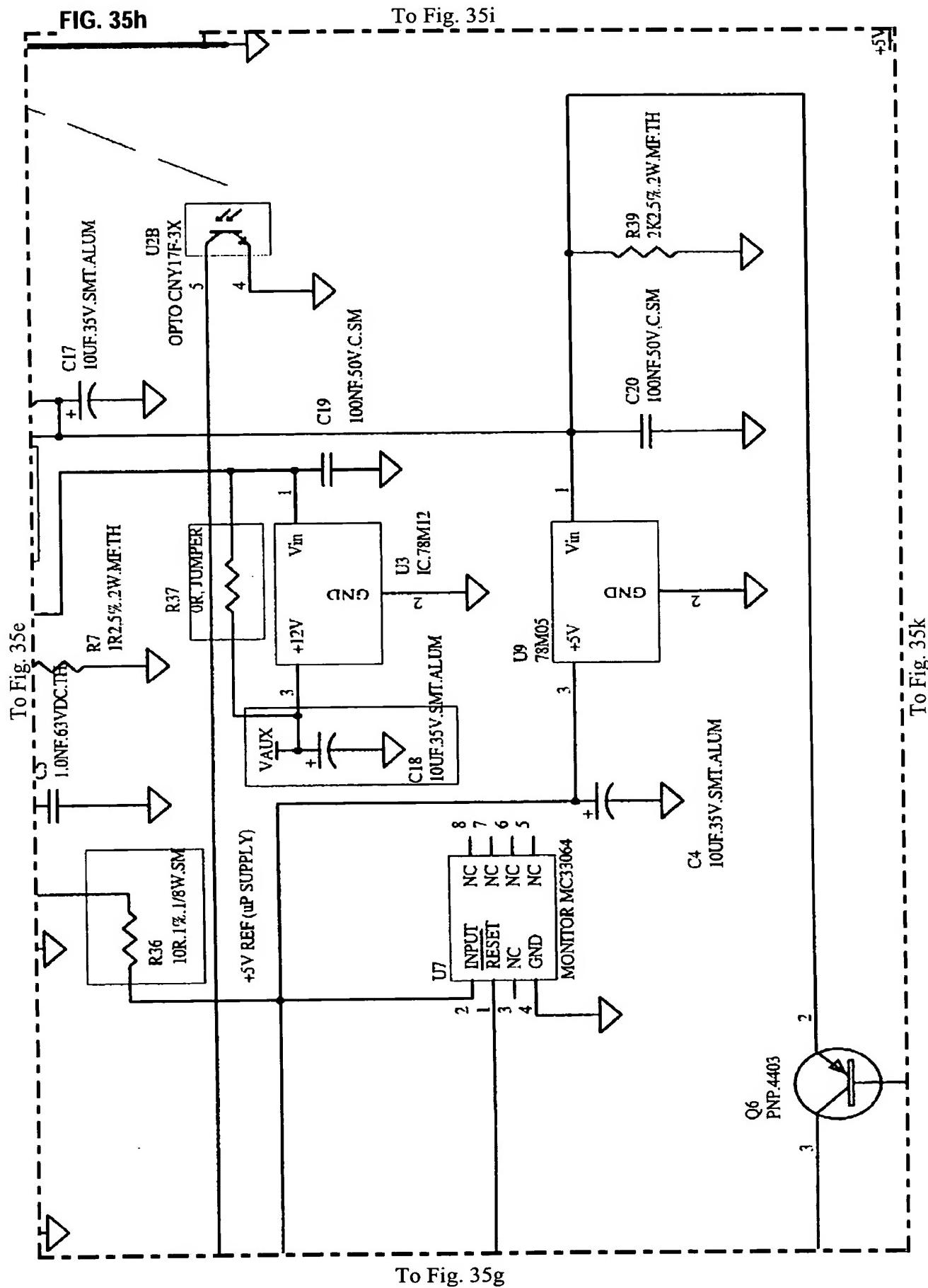
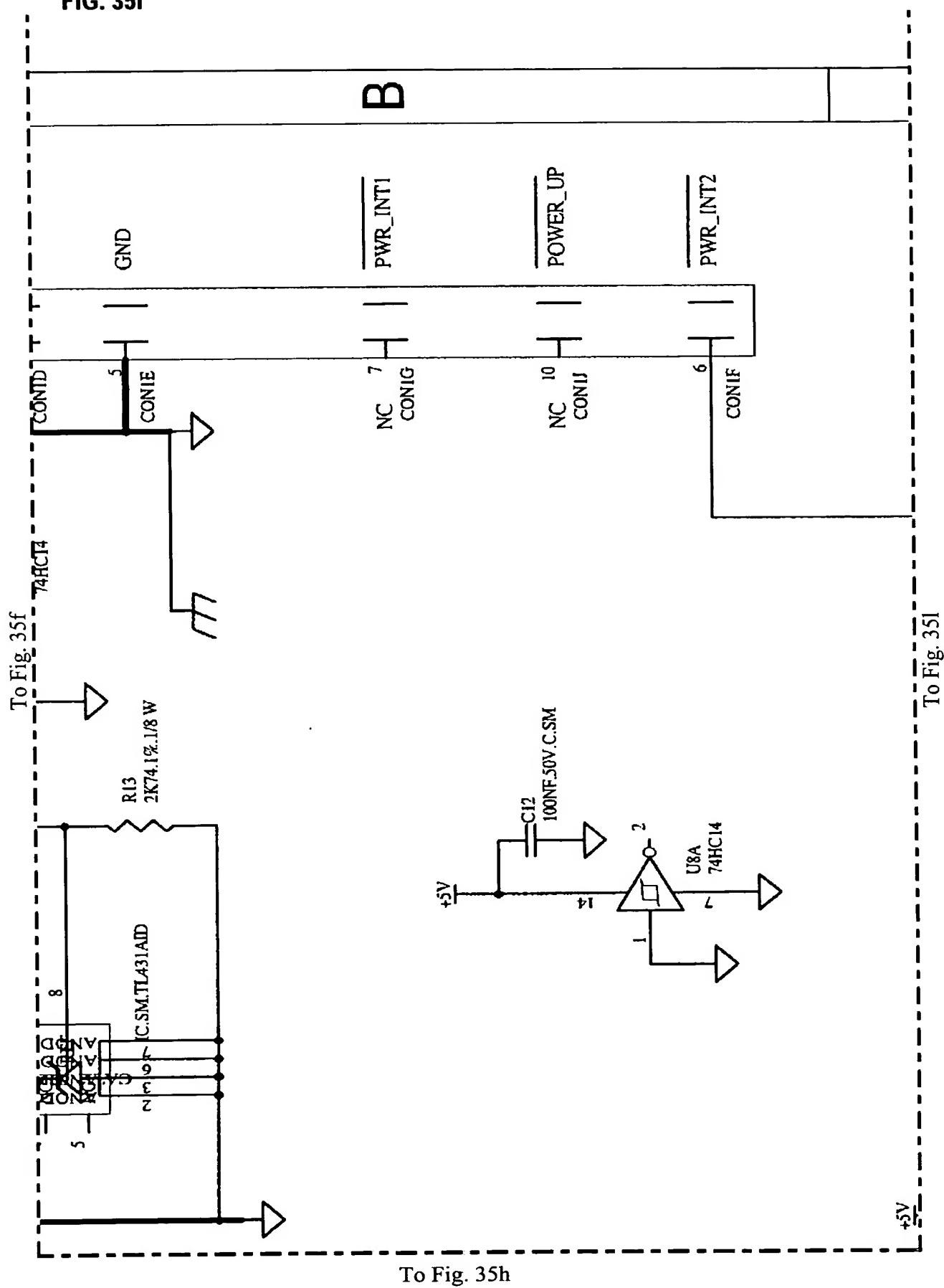
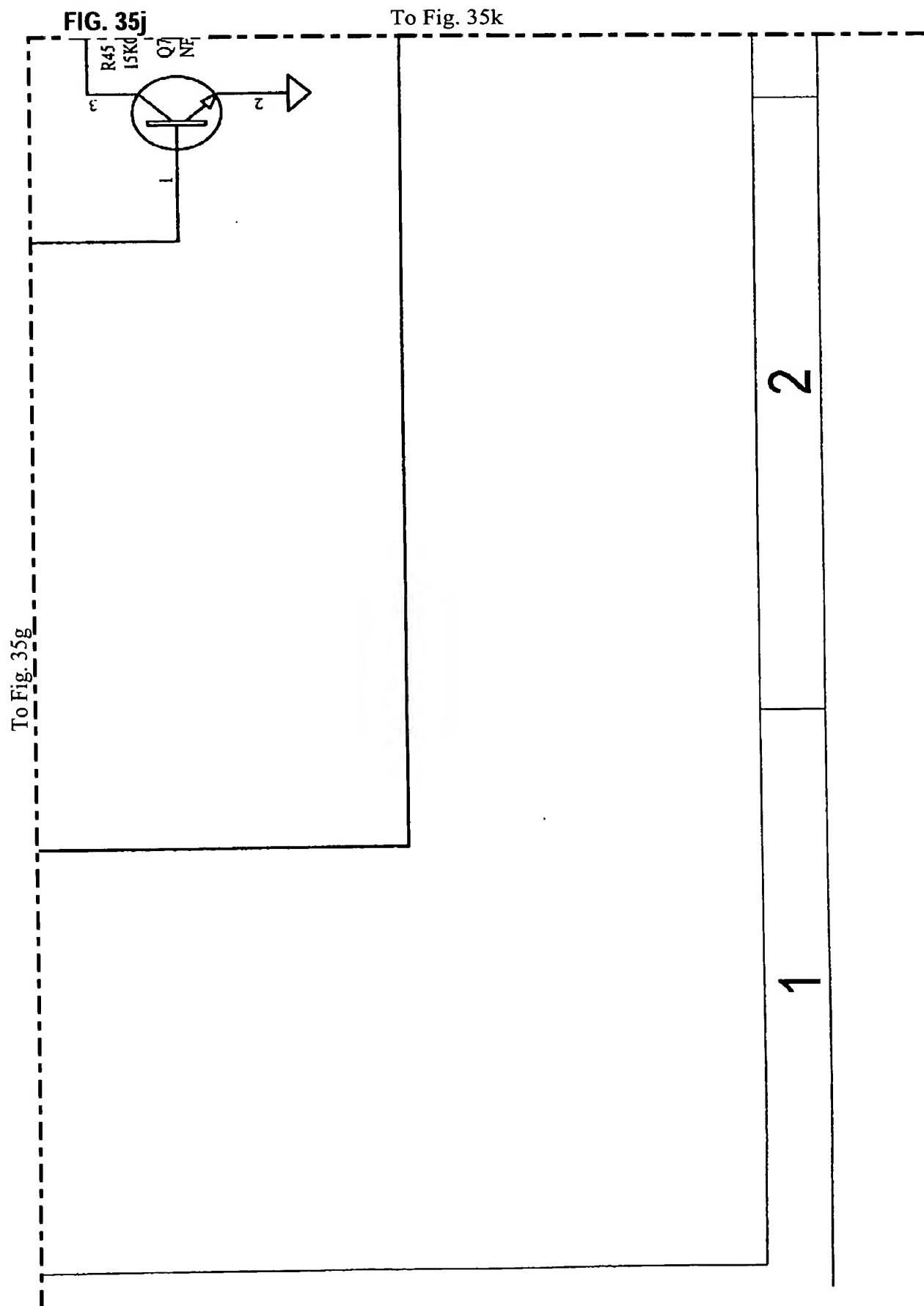
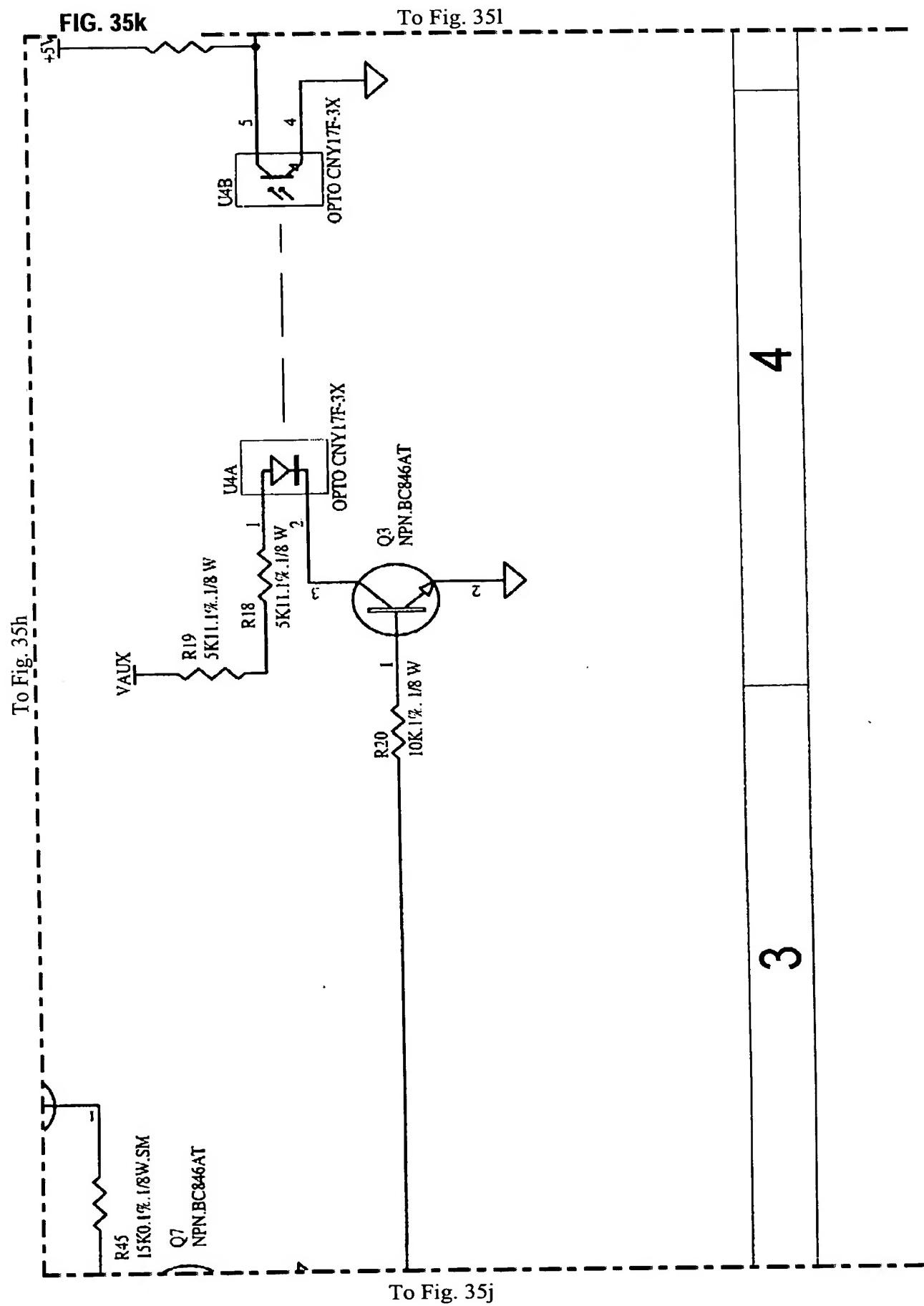


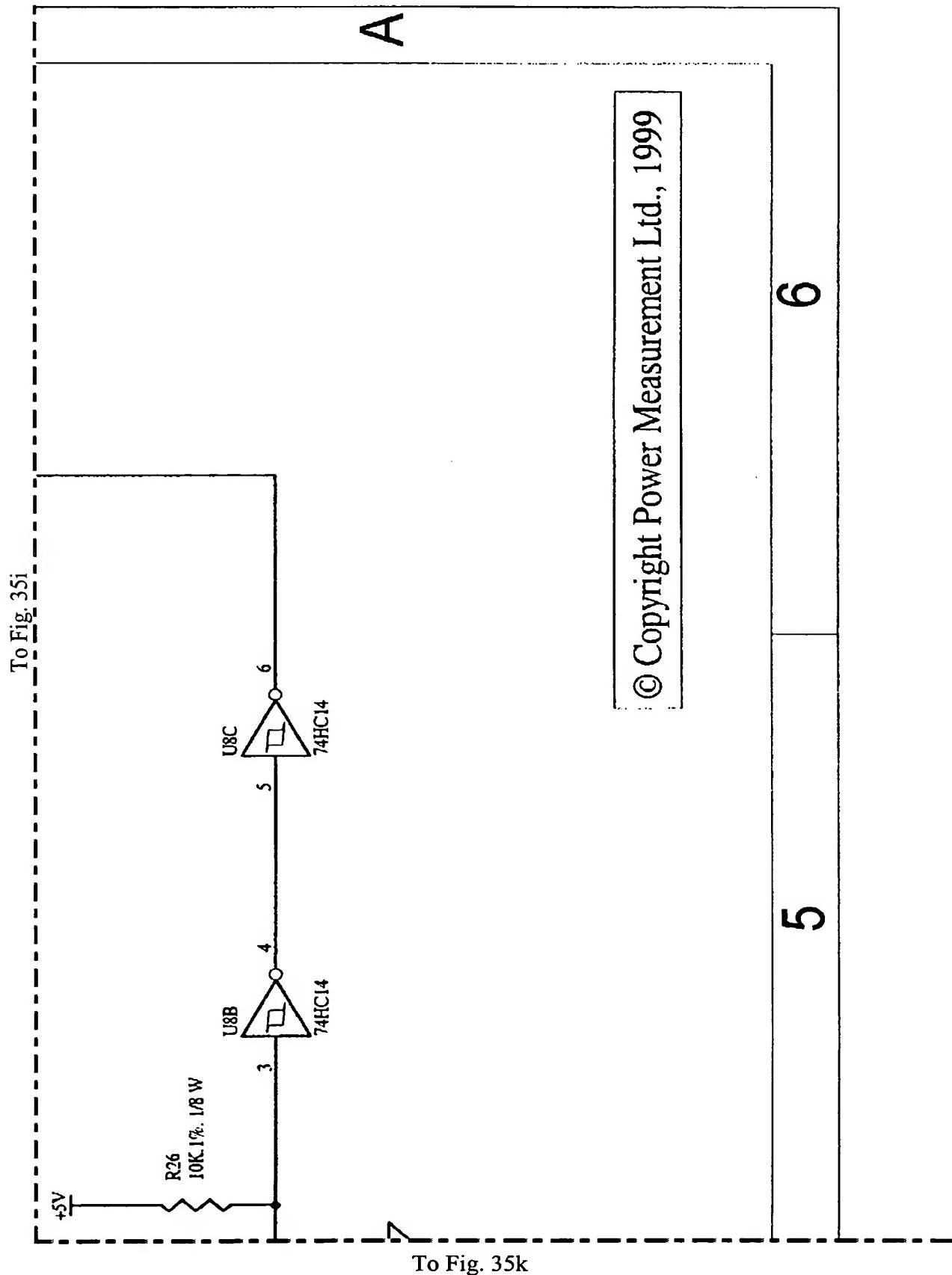
FIG. 35i







**FIG. 35I**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 36a**

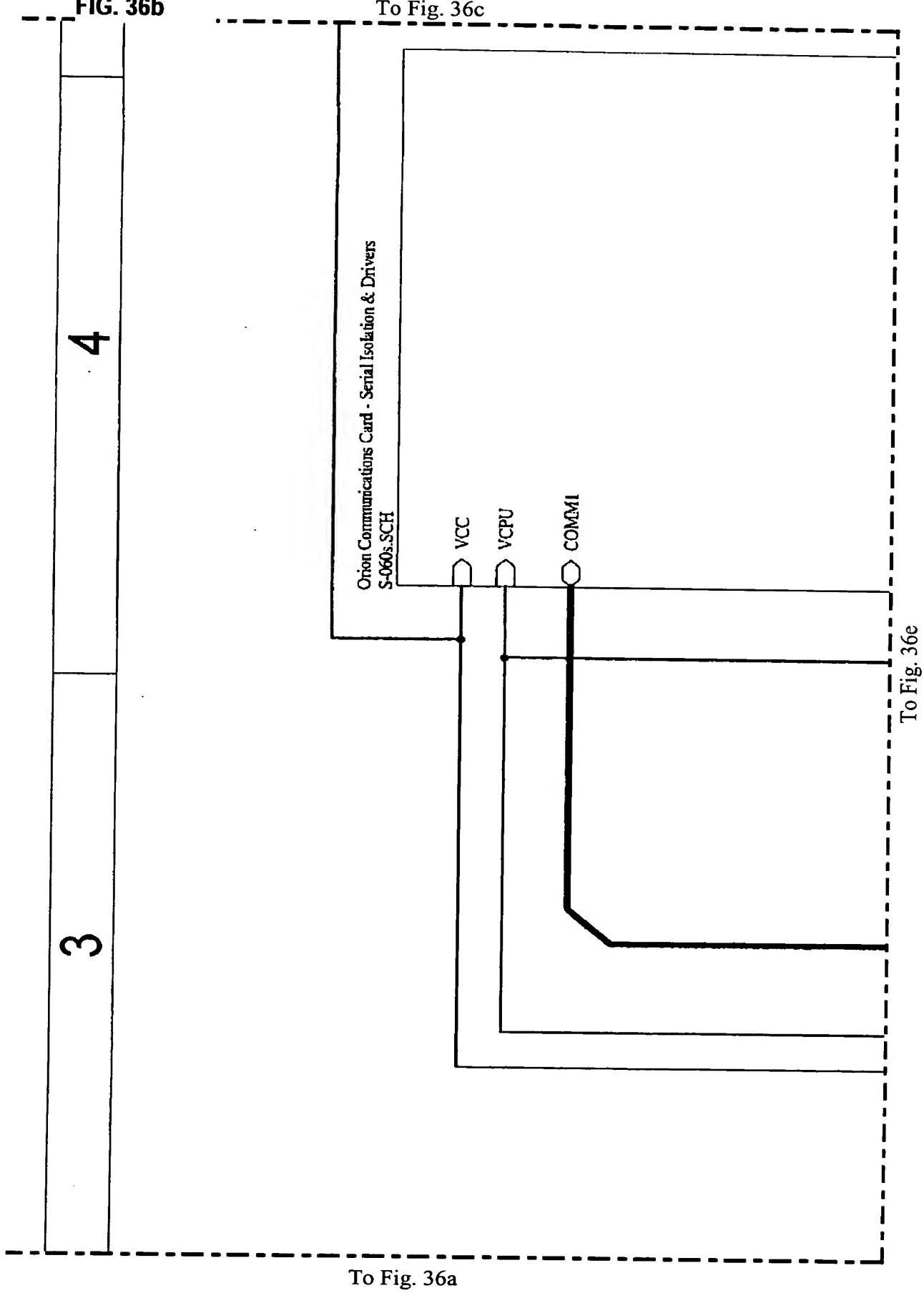
To Fig. 36b

2

1

To Fig. 36d

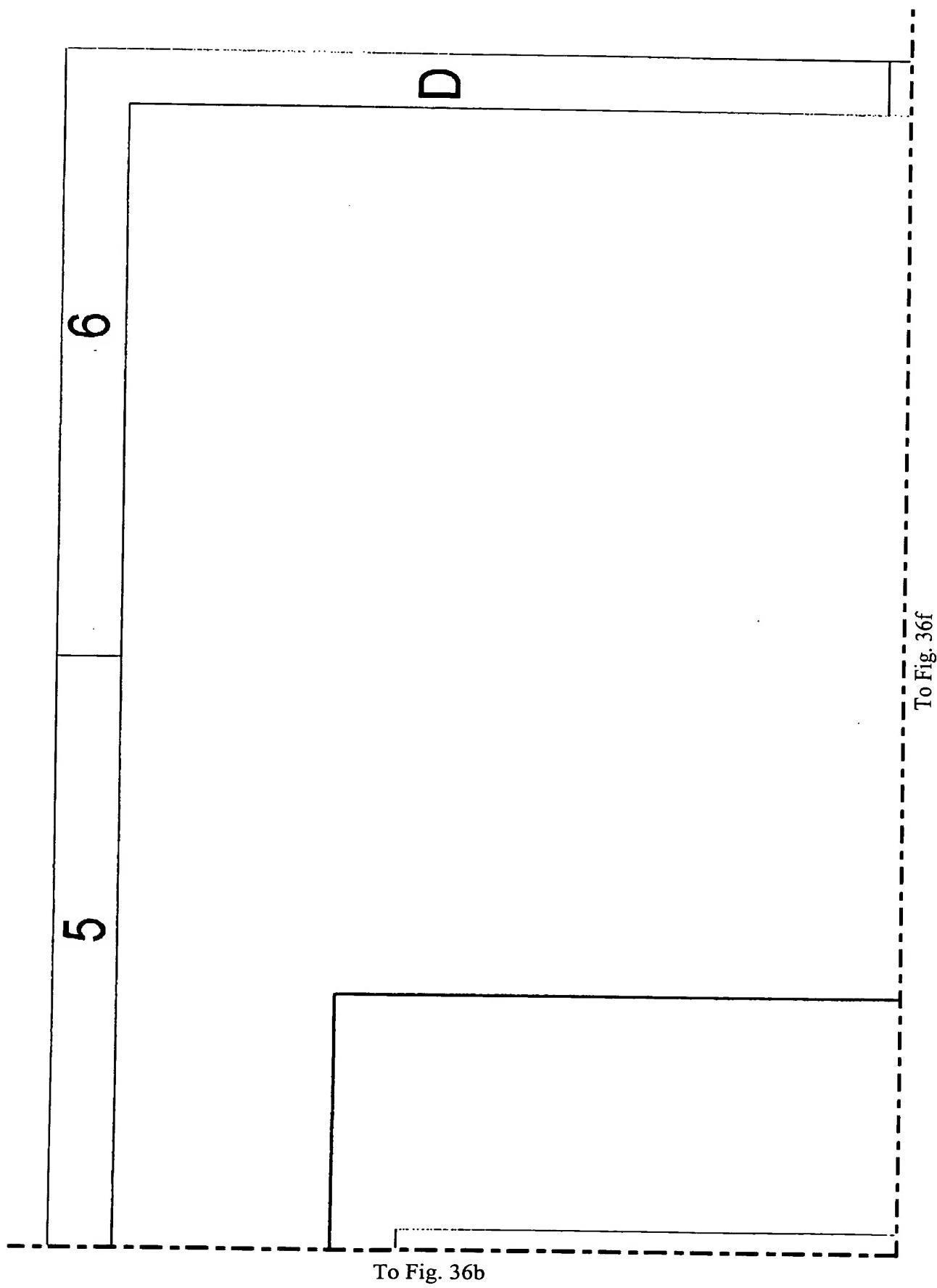
**FIG. 36b**



To Fig. 36a

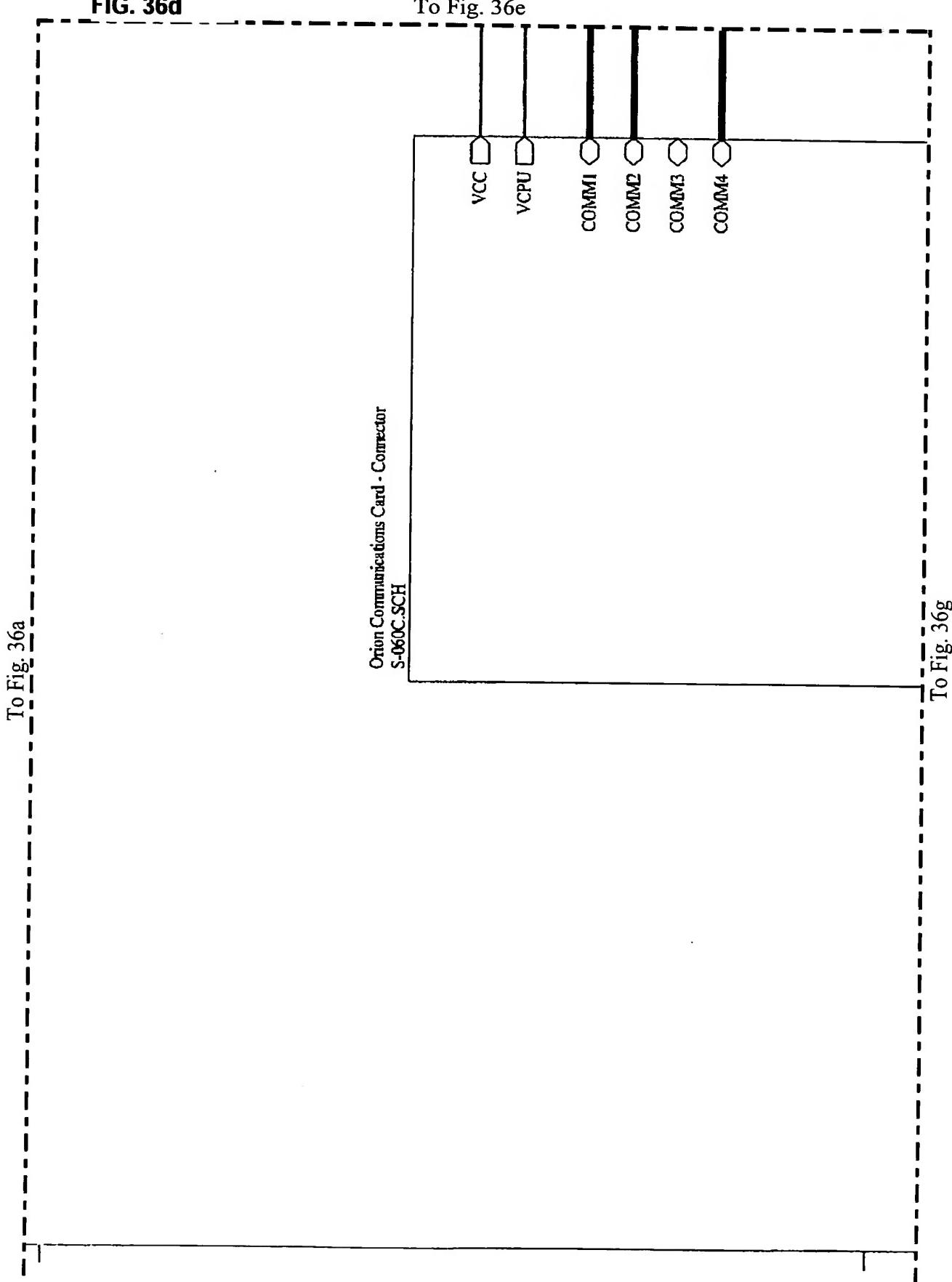
To Fig. 36c

**FIG. 36c**



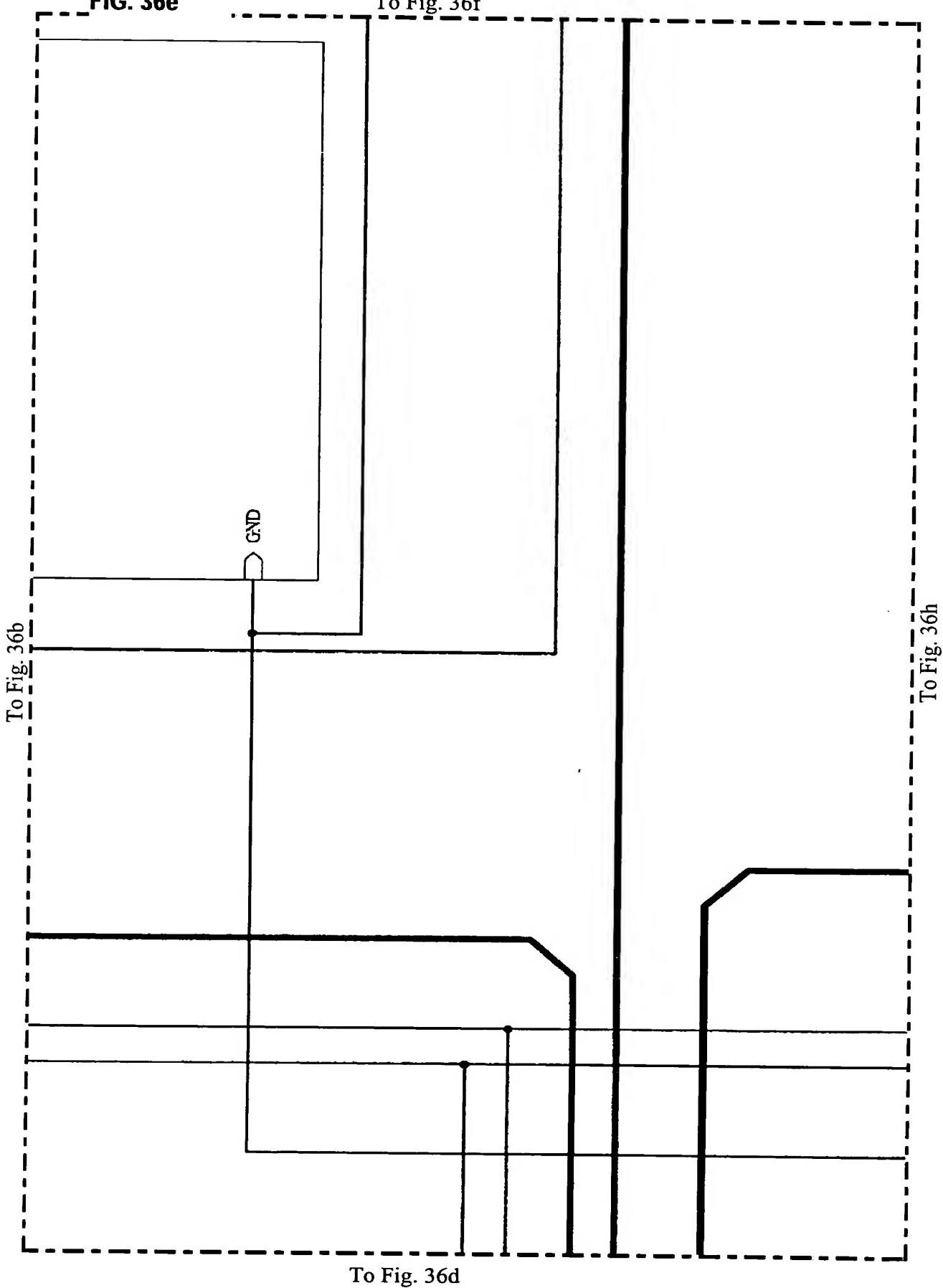
**FIG. 36d**

To Fig. 36e



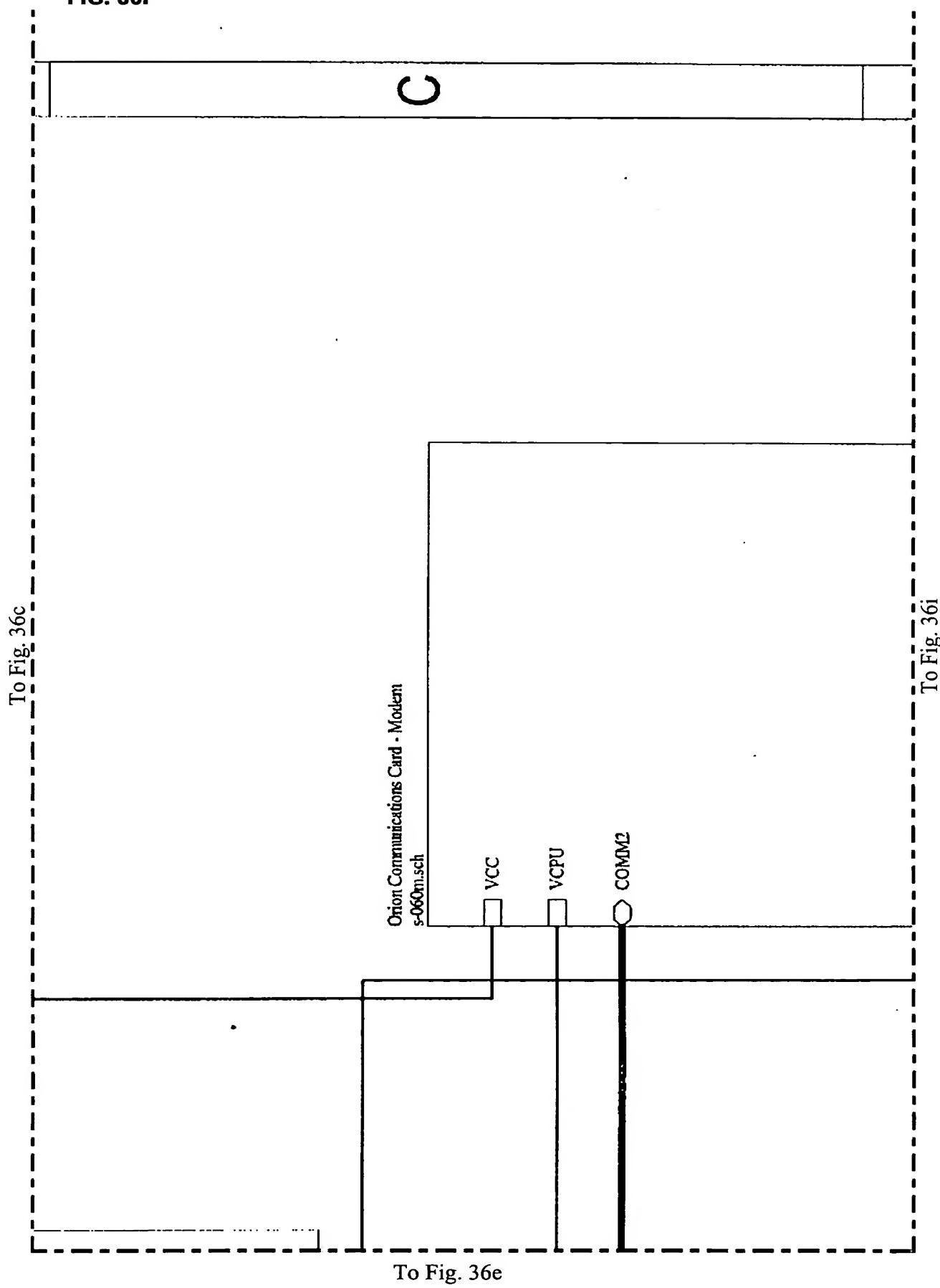
**FIG. 36e**

To Fig. 36f

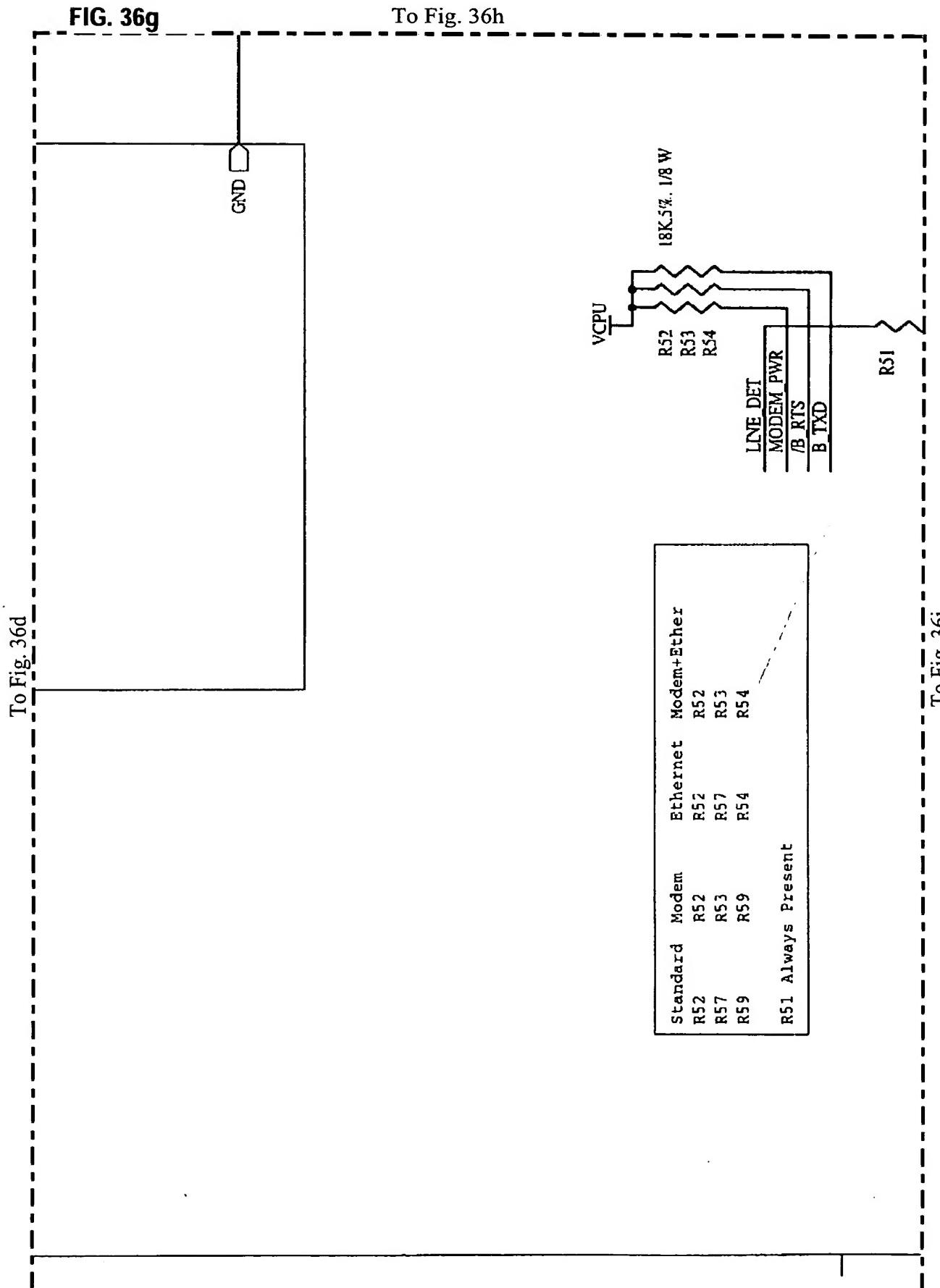


To Fig. 36d

**FIG. 36f**

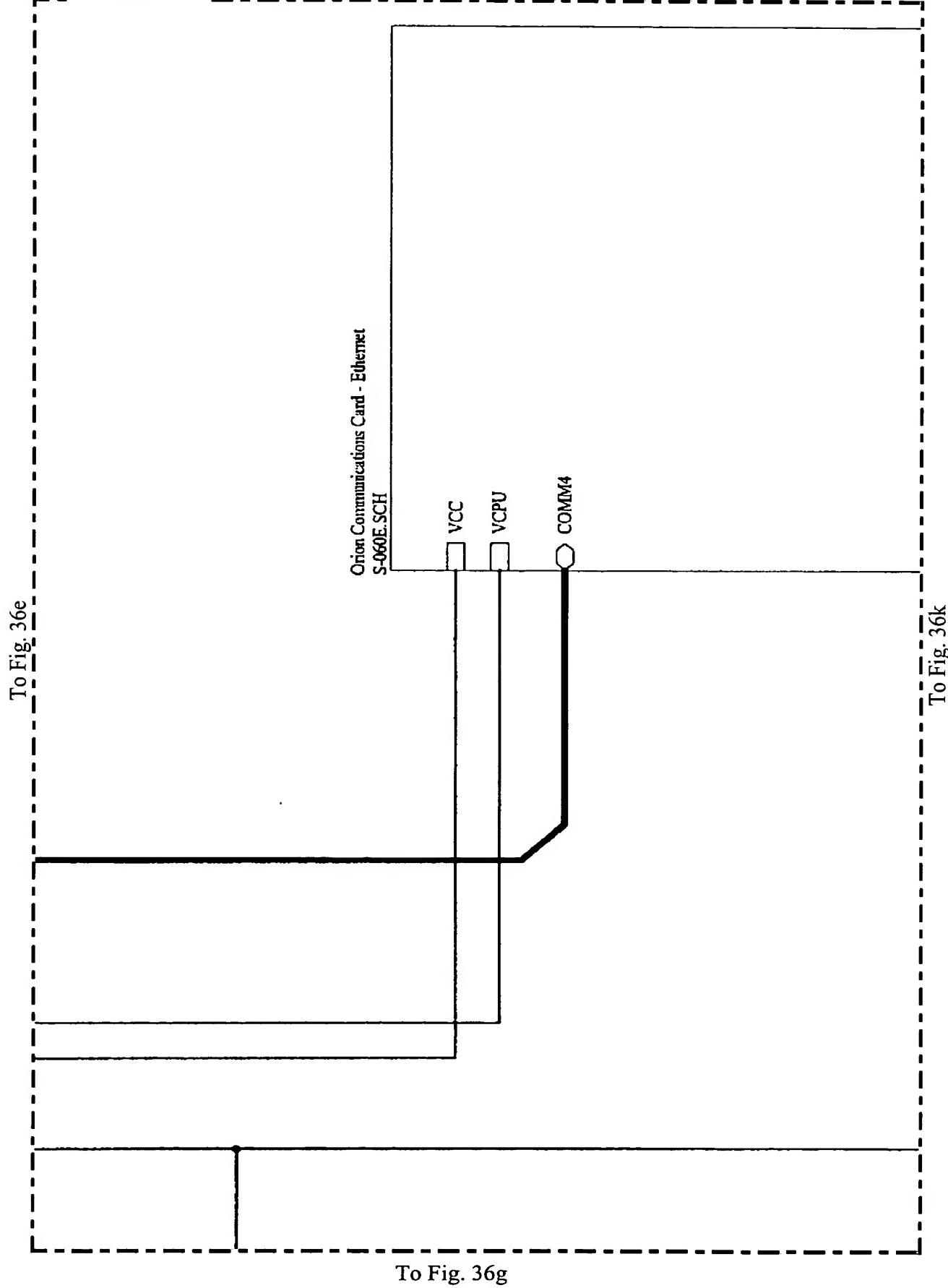


**FIG. 36g**

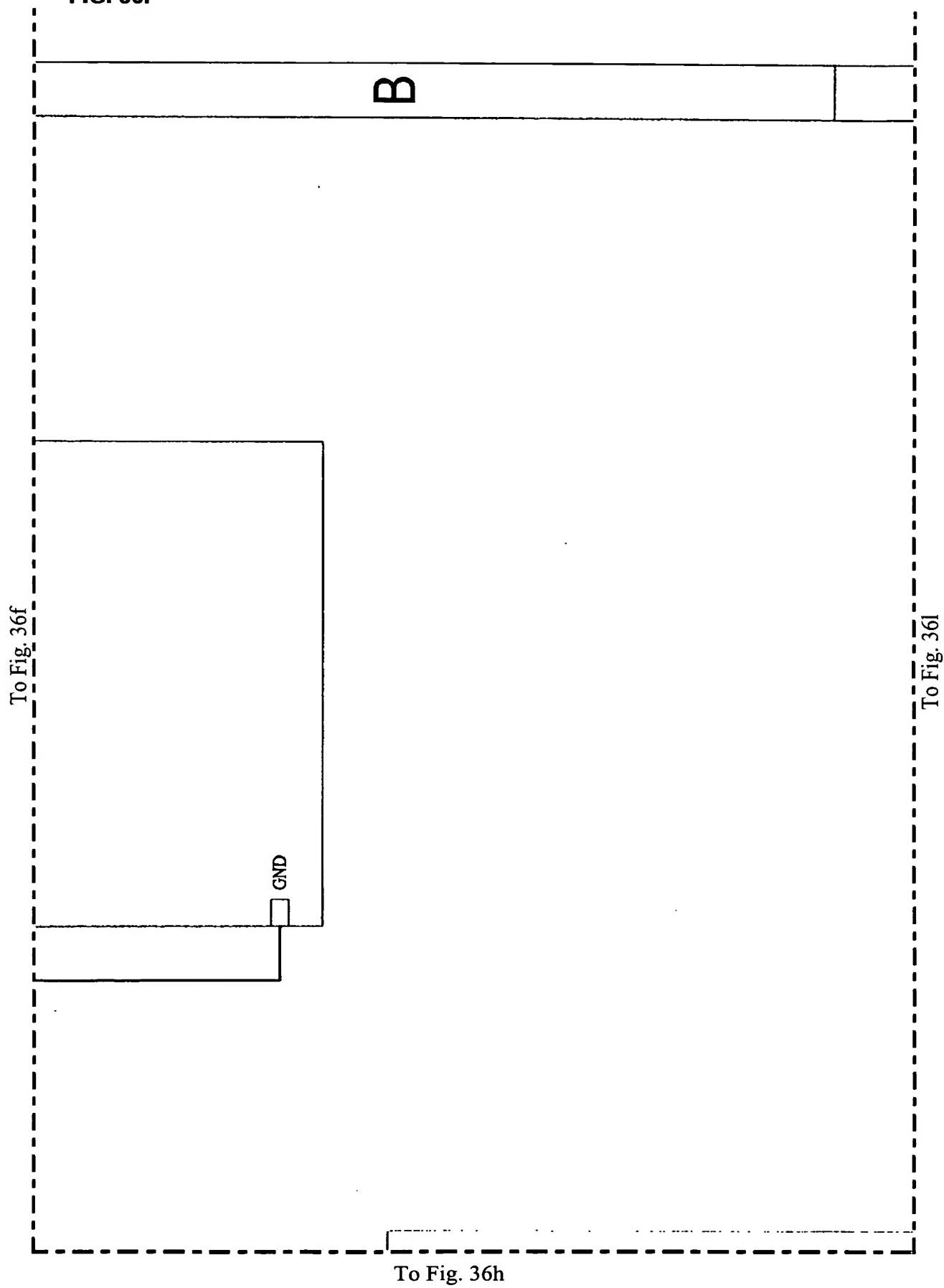


**FIG. 36h**

To Fig. 36i



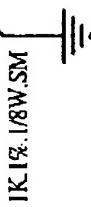
**FIG. 36i**



**FIG. 36j**

To Fig. 36k

To Fig. 36g

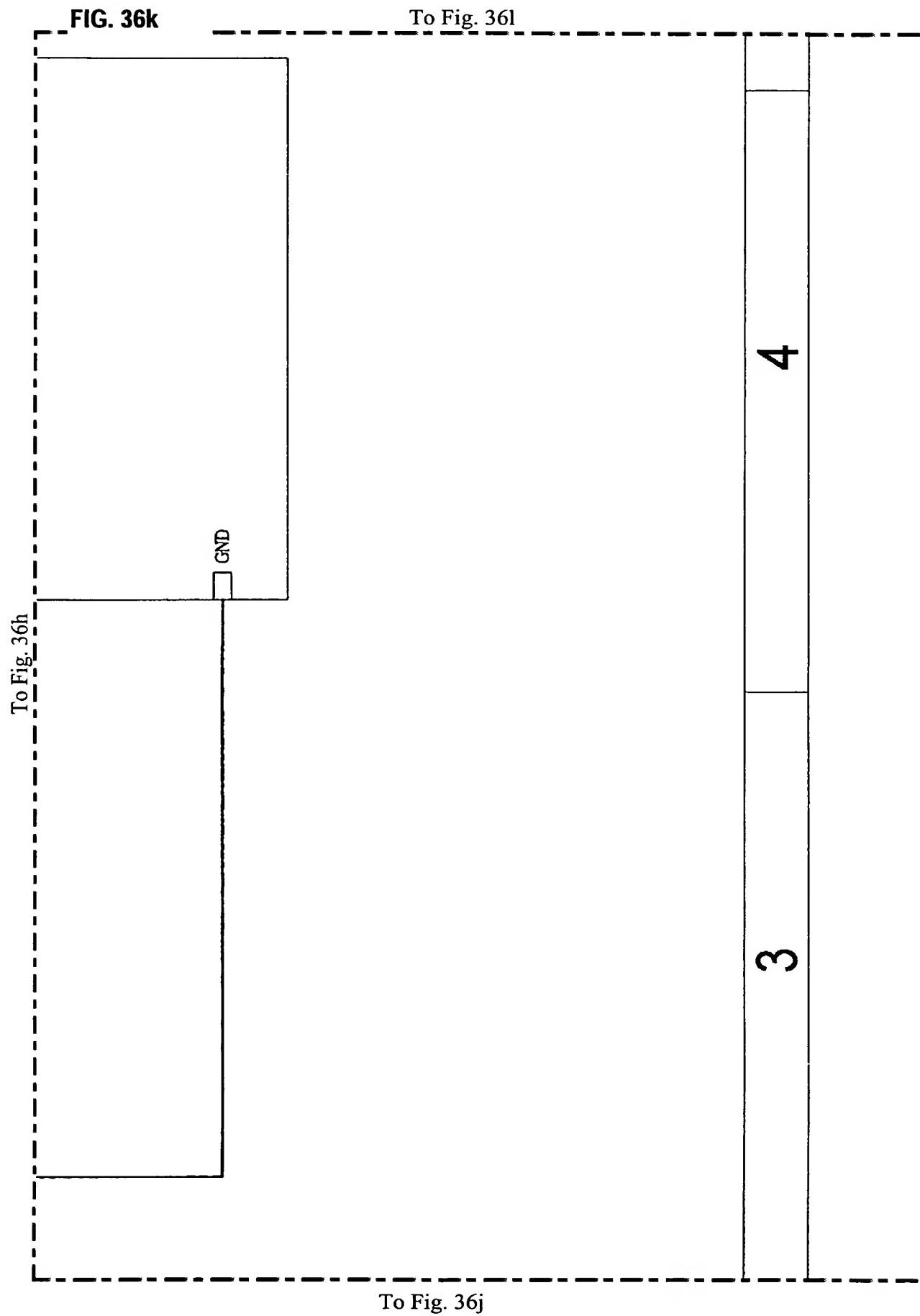


RS-232 Present R52  
RS-232 Absent R56  
RS-485 Present R57 Change Part Field 1 to "Do Not Mount" for resistors not mounted for certain version.  
Modem Present R53  
Ethernet Present R54  
Ethernet Absent R59

RS-232 Present	R52
RS-232 Absent	R56
RS-485 Present	R57
Modem Present	R53
Ethernet Present	R54
Ethernet Absent	R59

1

2



**FIG. 36I**

To Fig. 36i

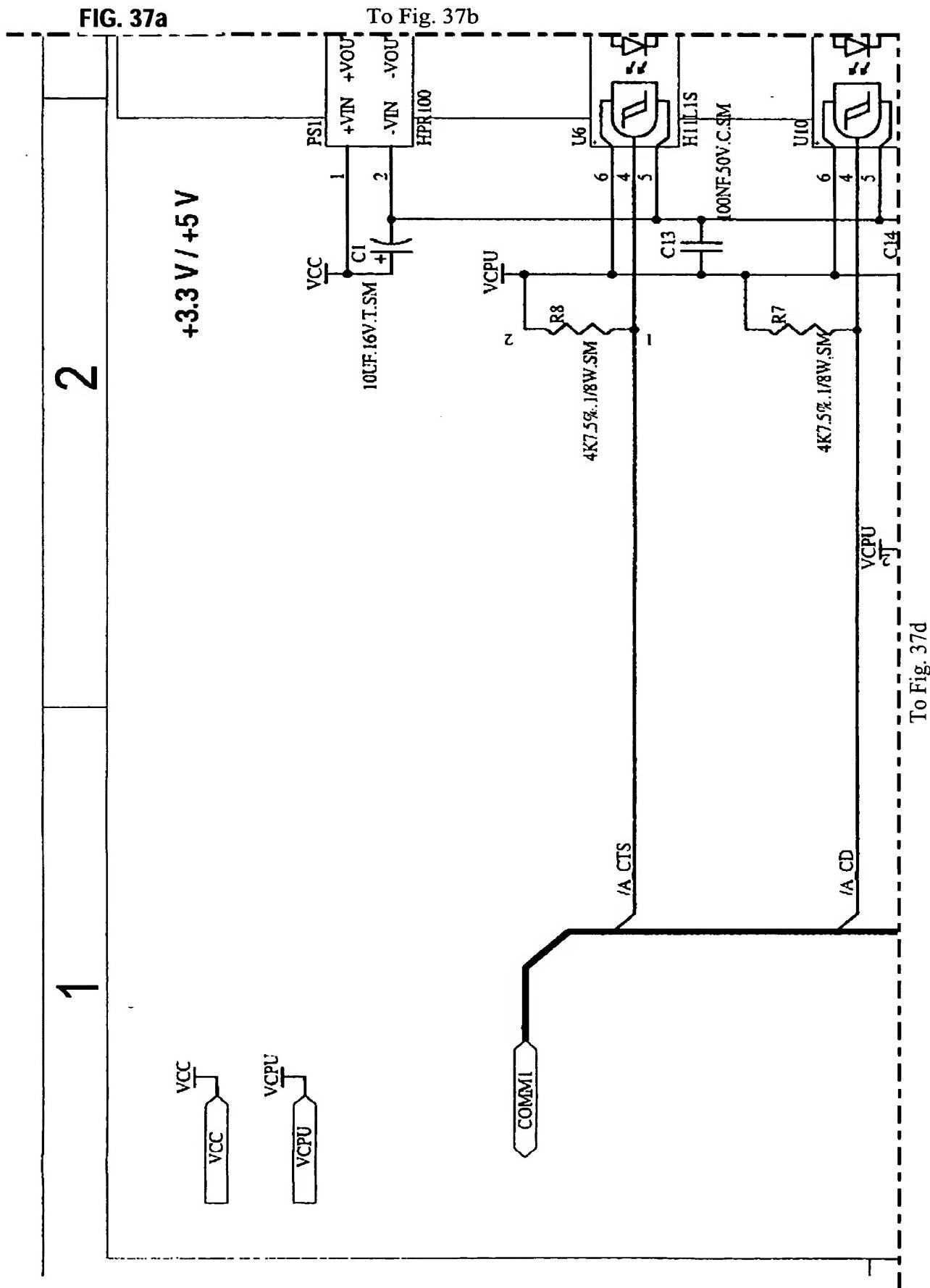
A

© Copyright Power Measurement Ltd., 1999

6

5

To Fig. 36k

**FIG. 37a**

**FIG. 37b**

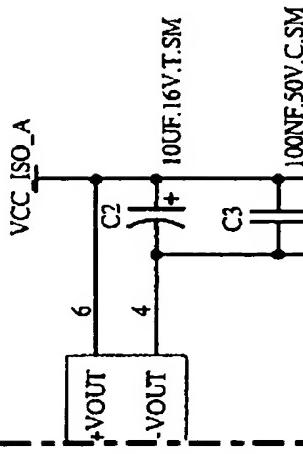
To Fig. 37c

ISOLATION PLANE

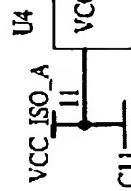
**4**

**3**

**+5V**

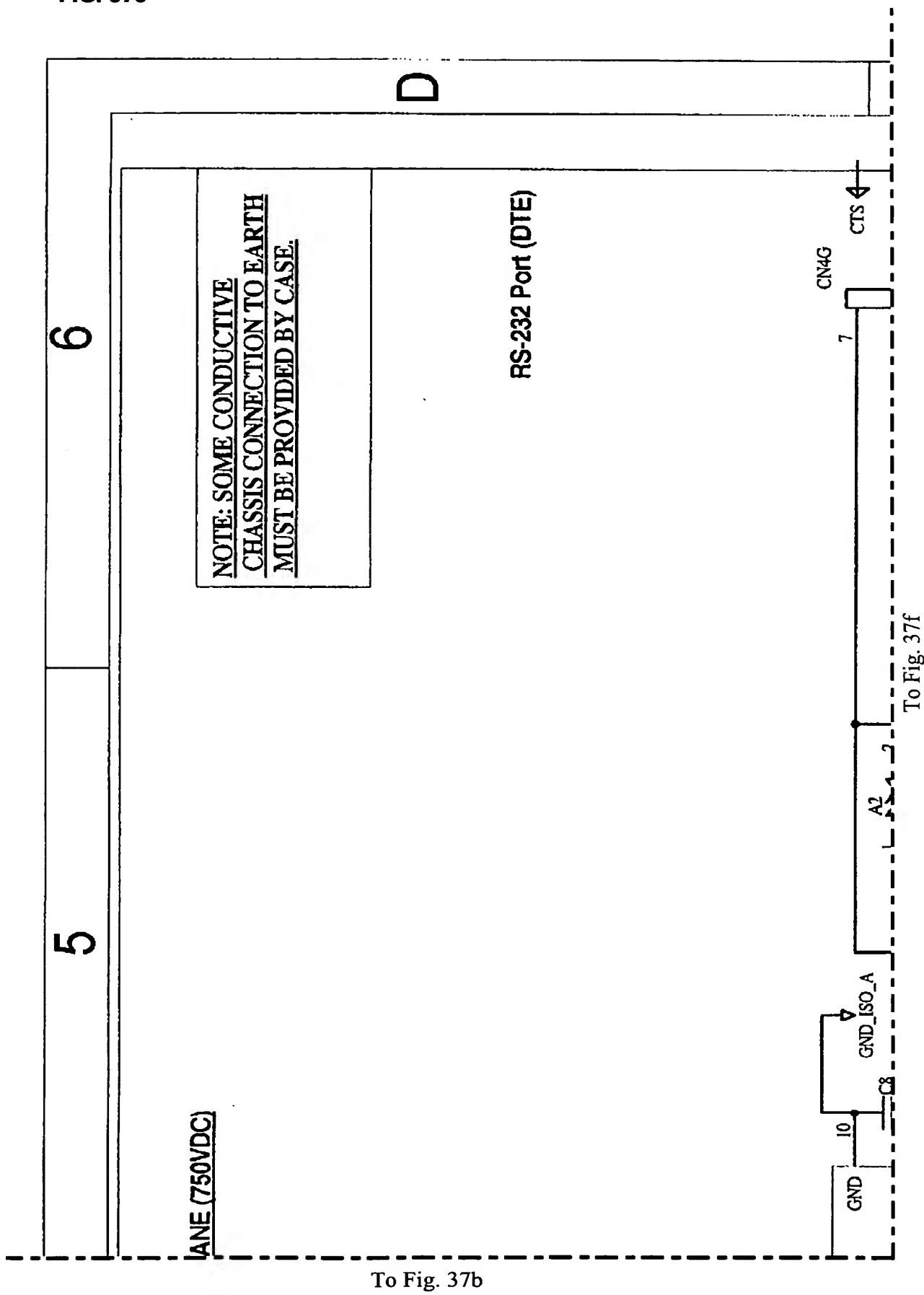


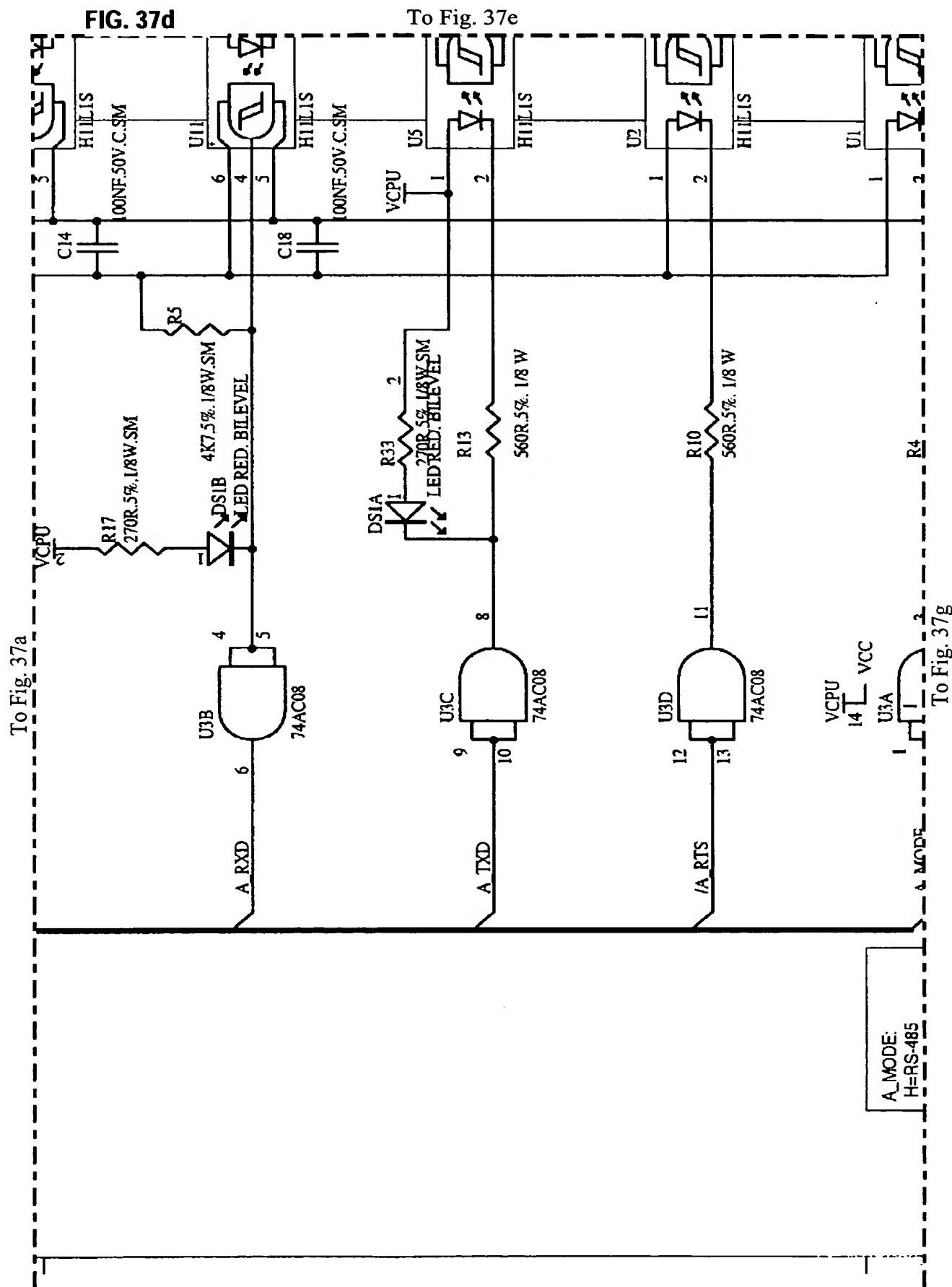
To Fig. 37a



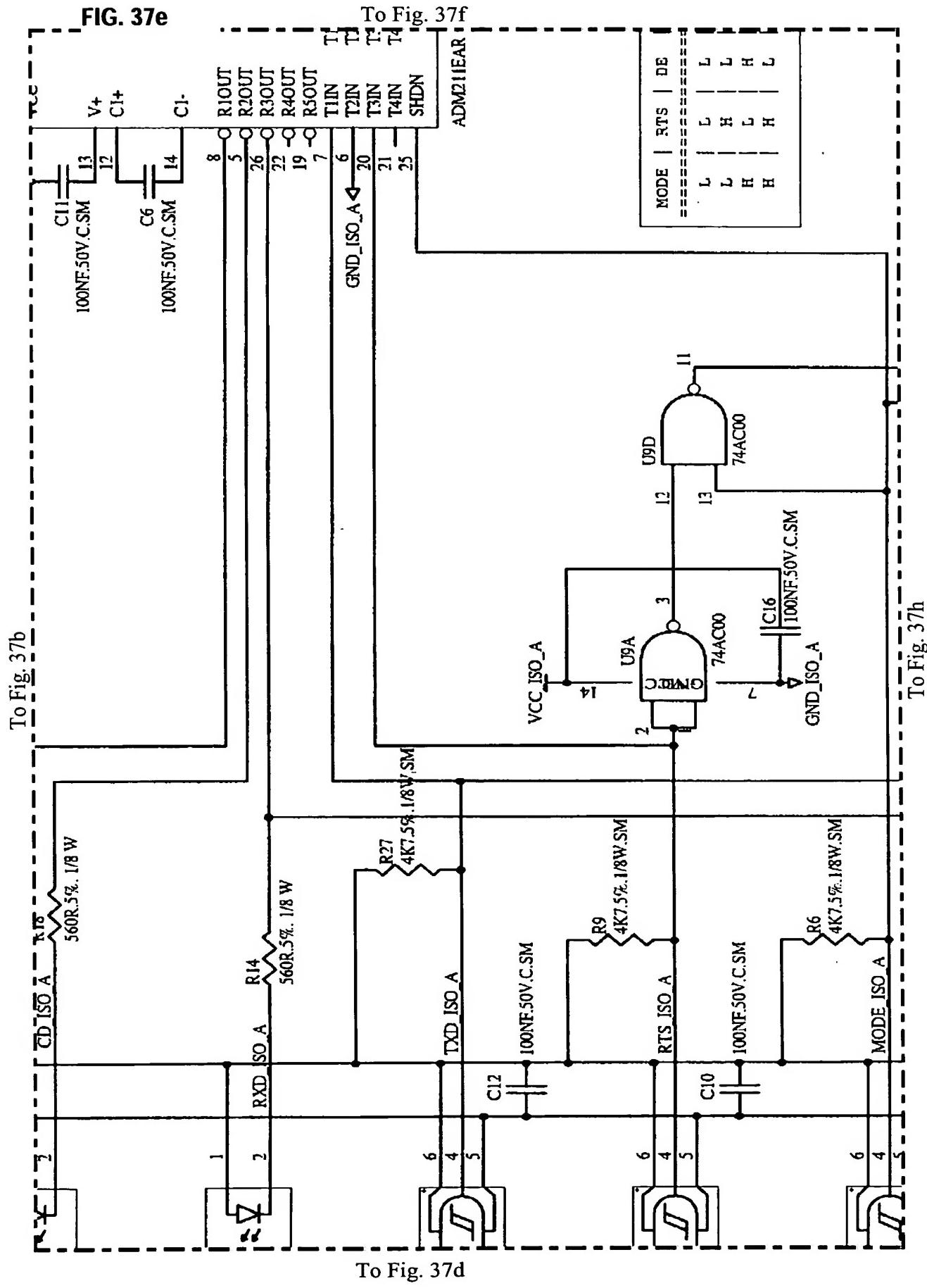
To Fig. 37e

**FIG. 37c**

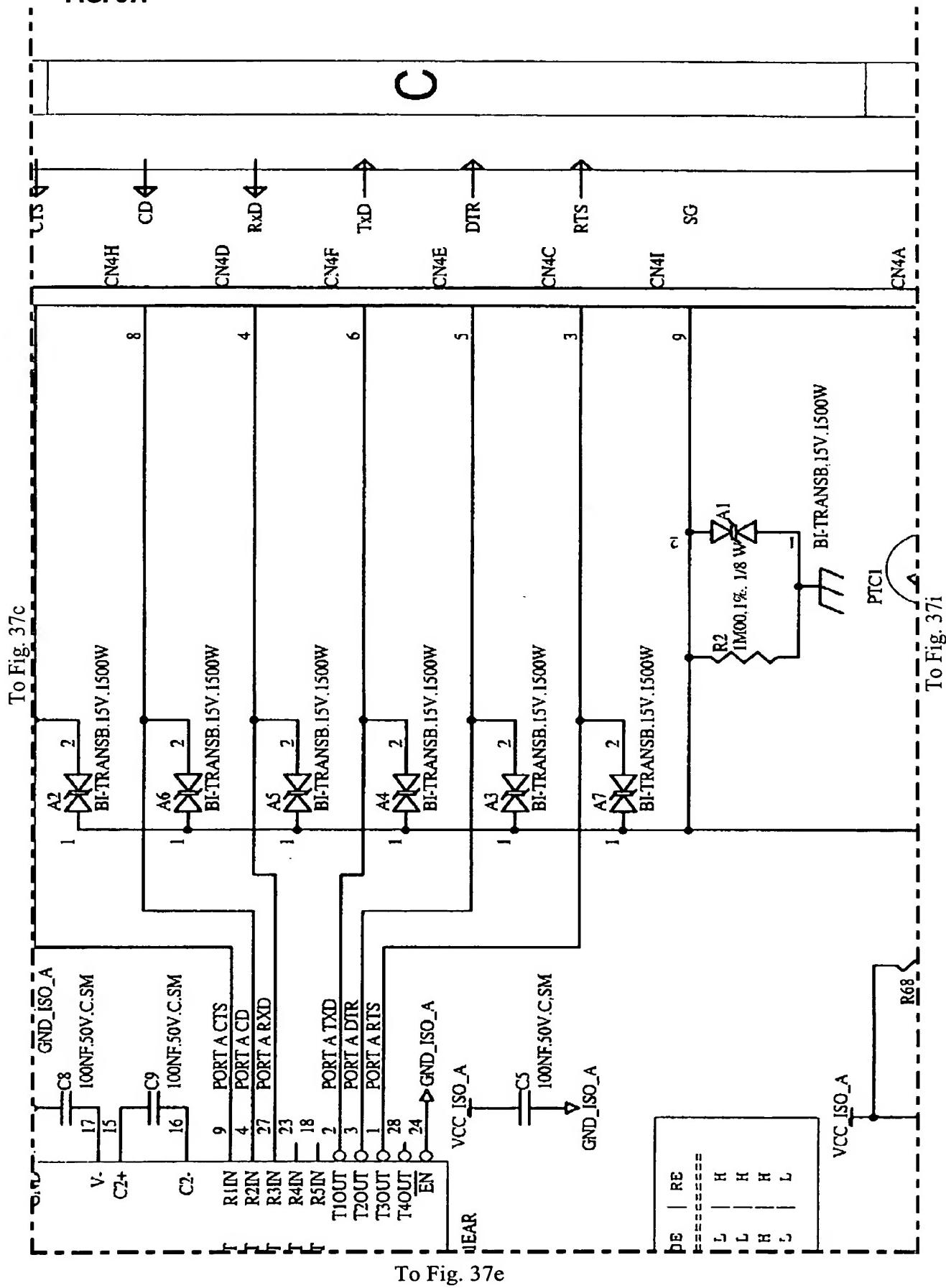


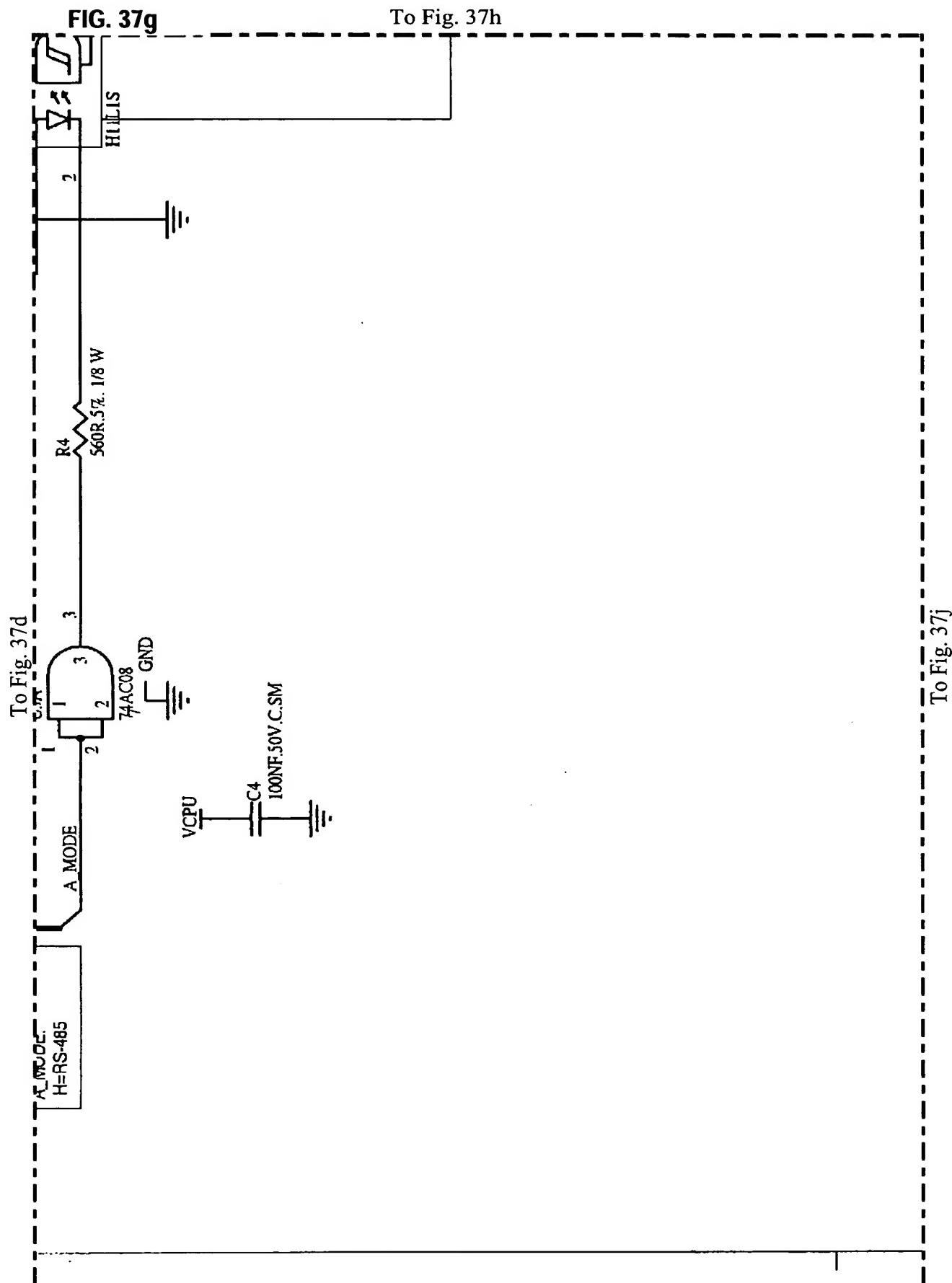


**FIG. 37e**



**FIG. 37f**

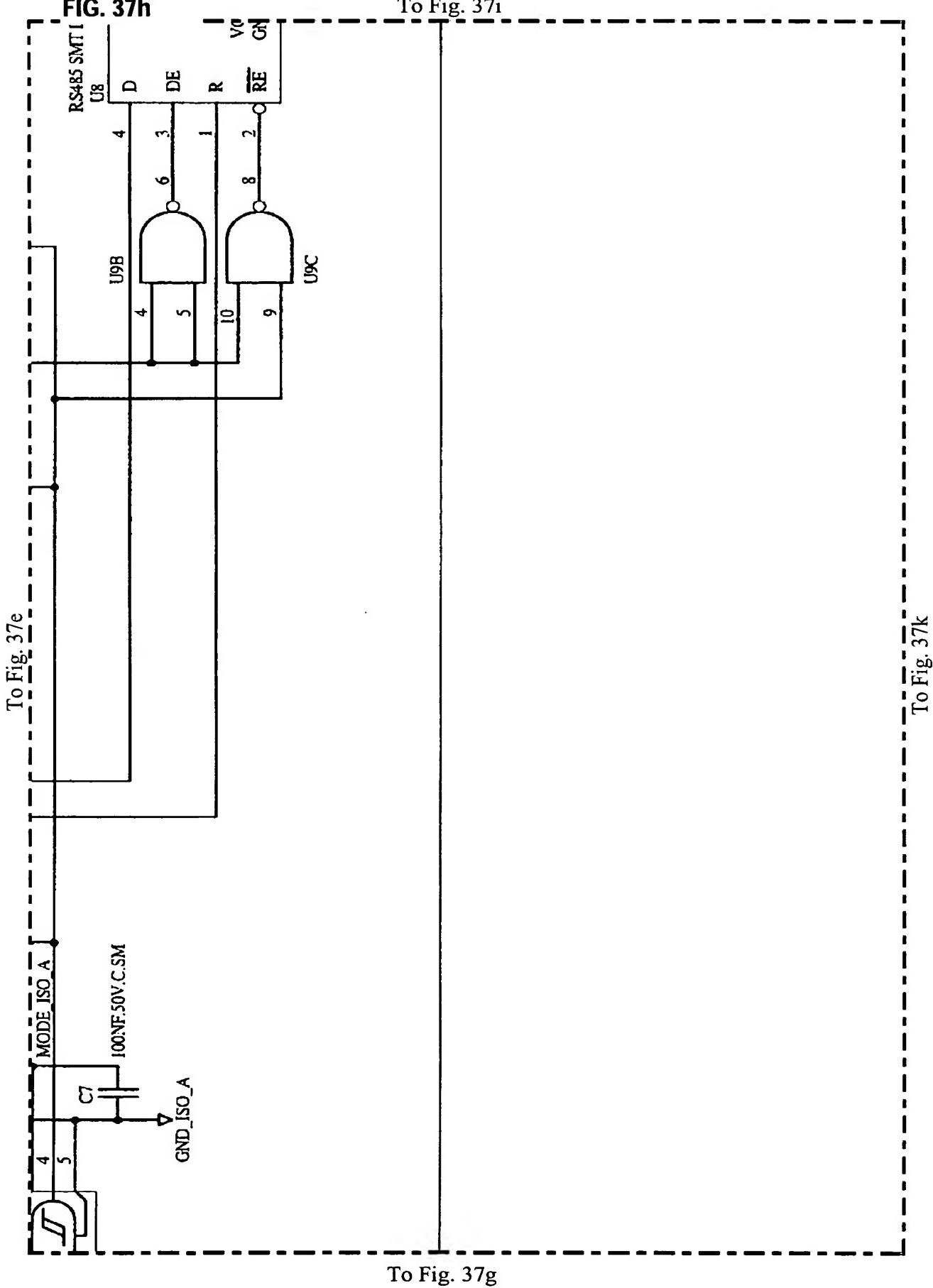


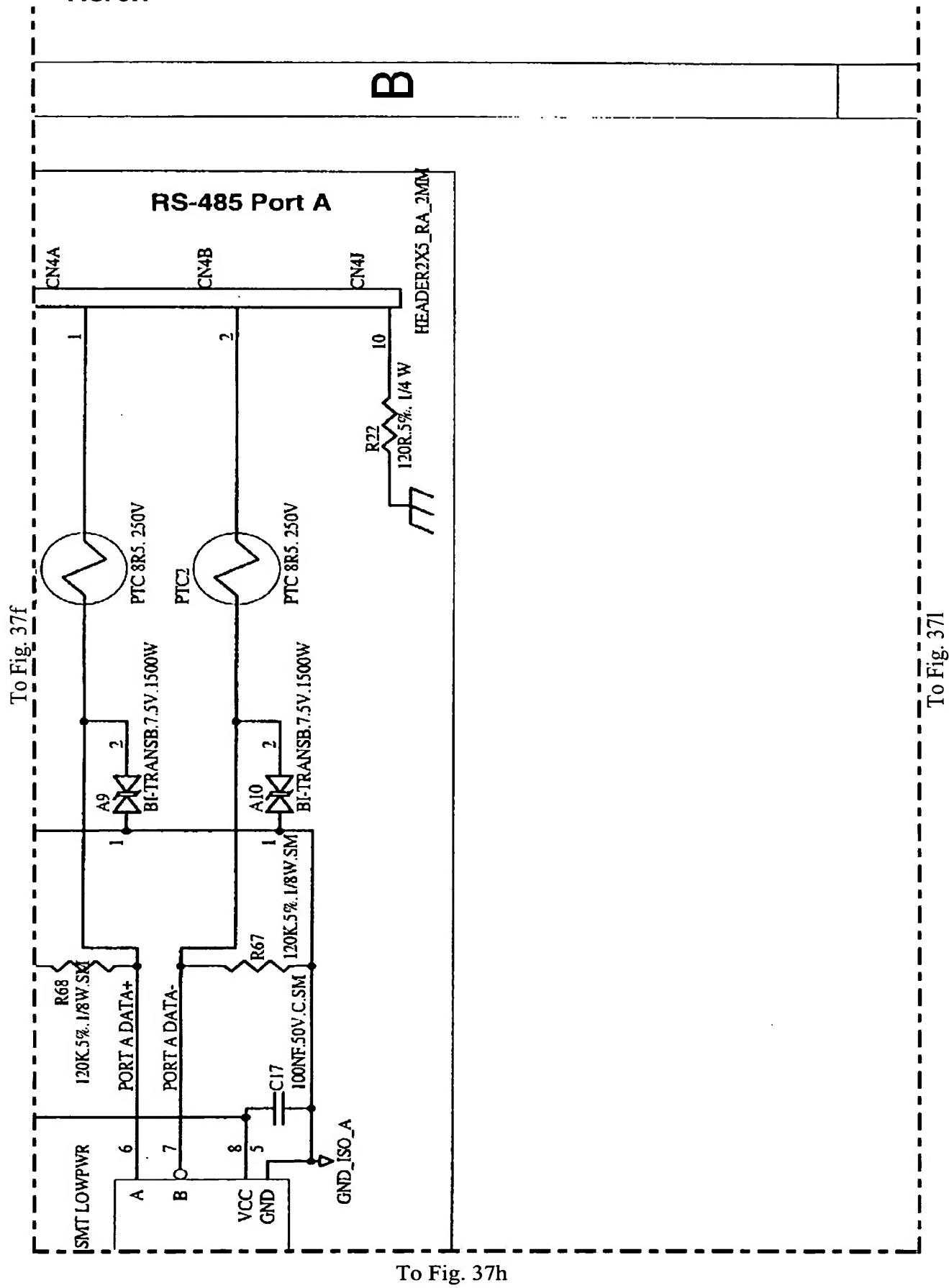


Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

FIG. 37h



**FIG. 37i**

Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

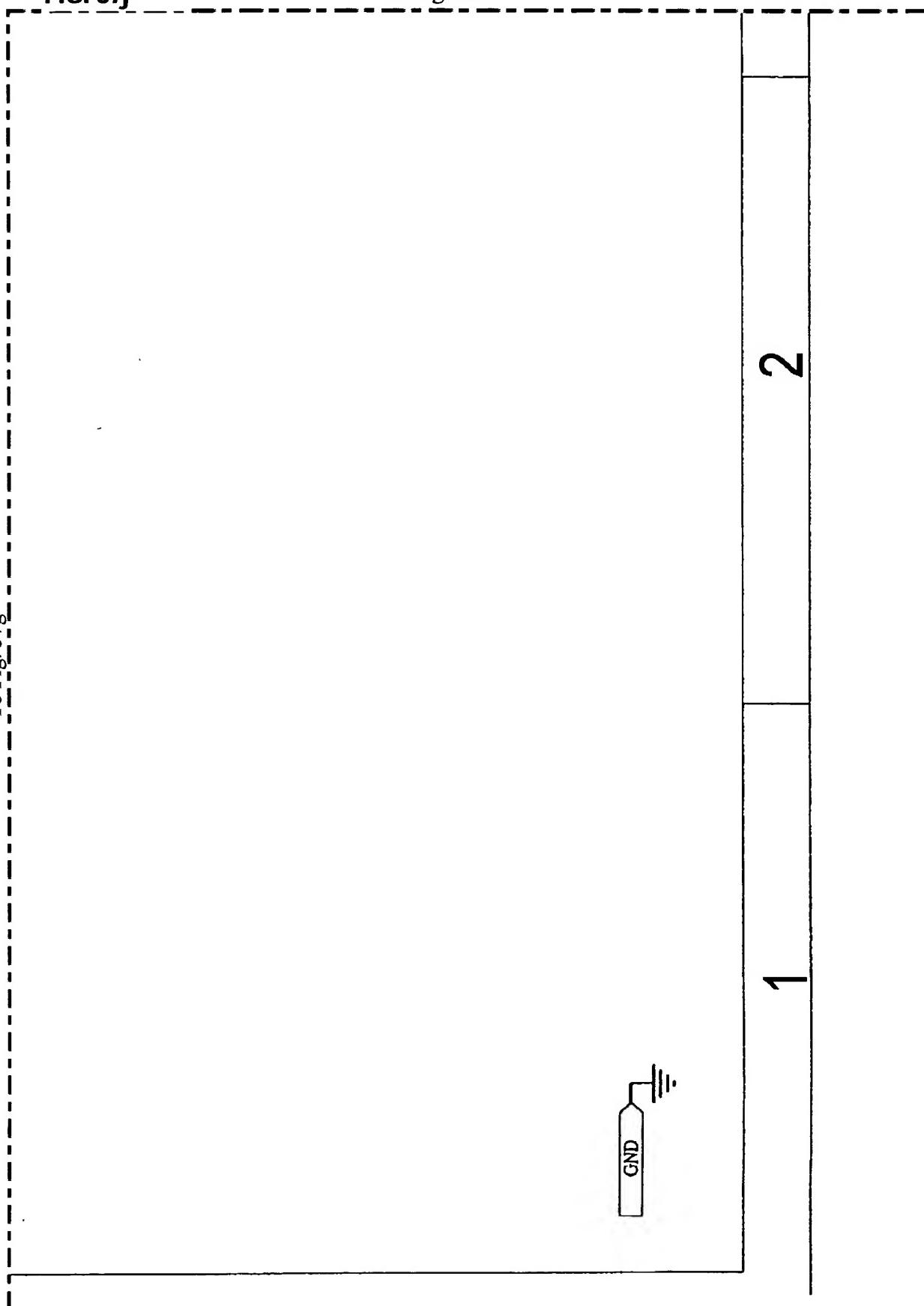
Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 37j**

To Fig. 37k

To Fig. 37g



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 37k**

To Fig. 37l

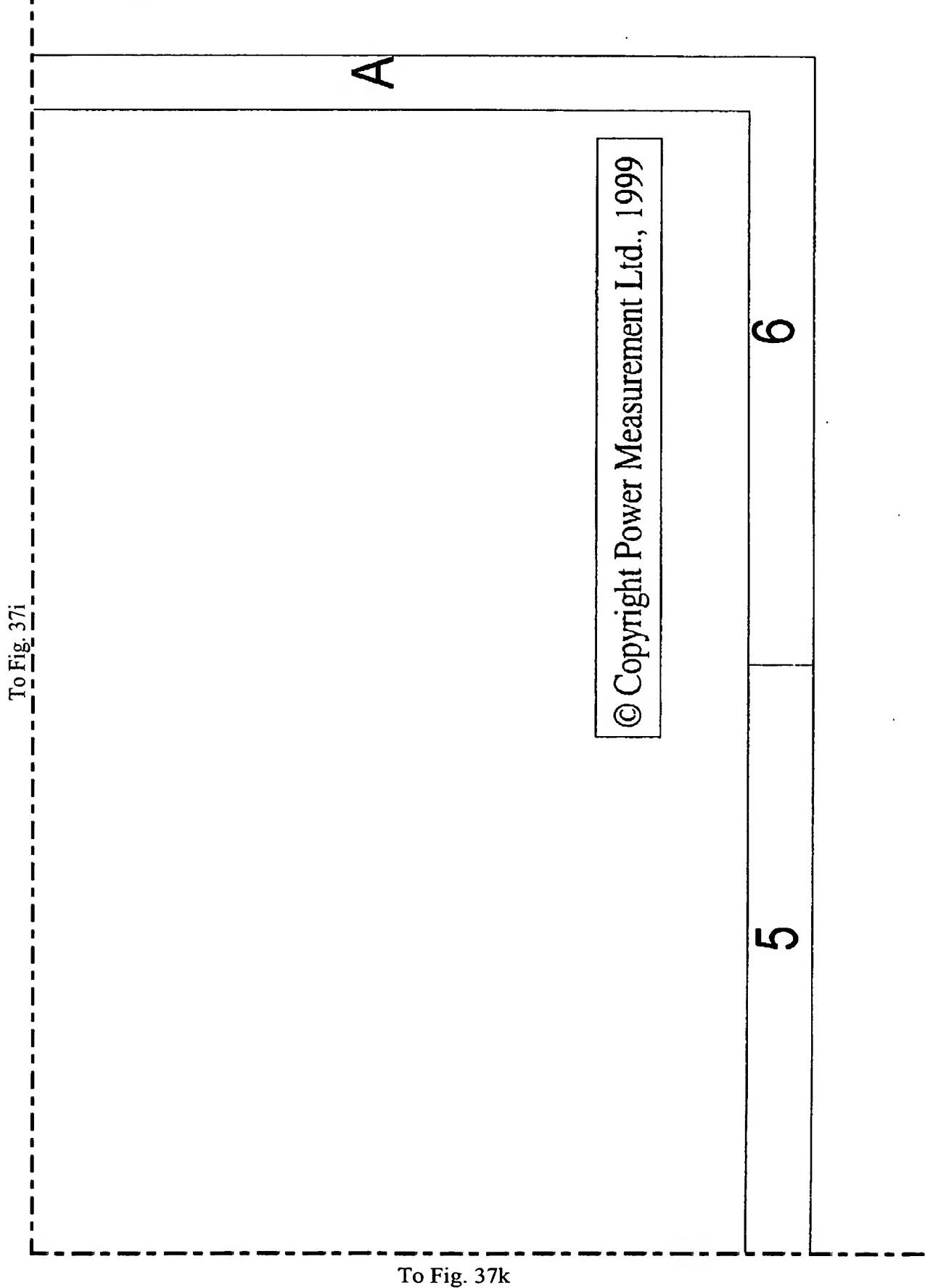
To Fig. 37h

**4**

**3**

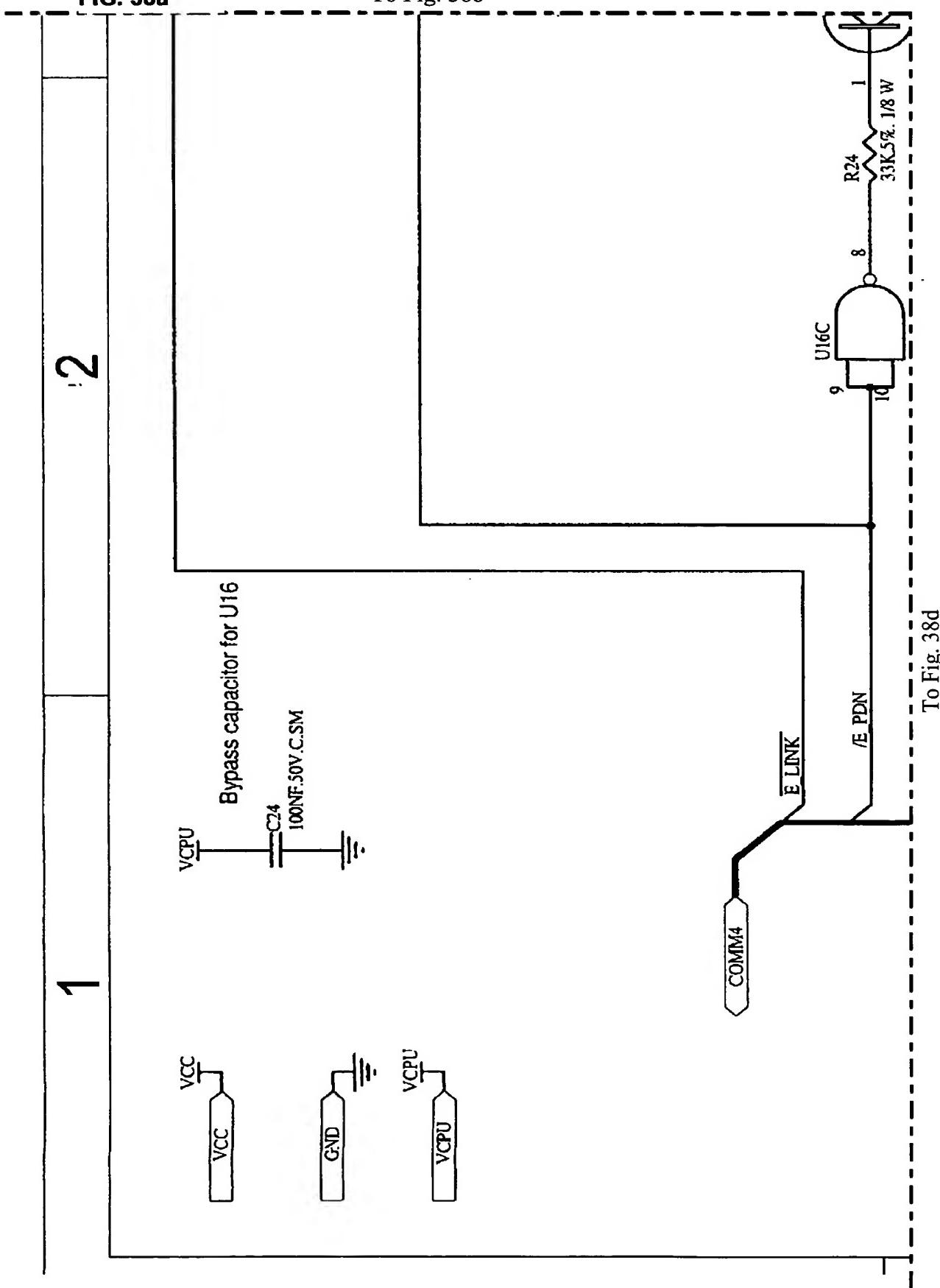
To Fig. 37j

**FIG. 37I**

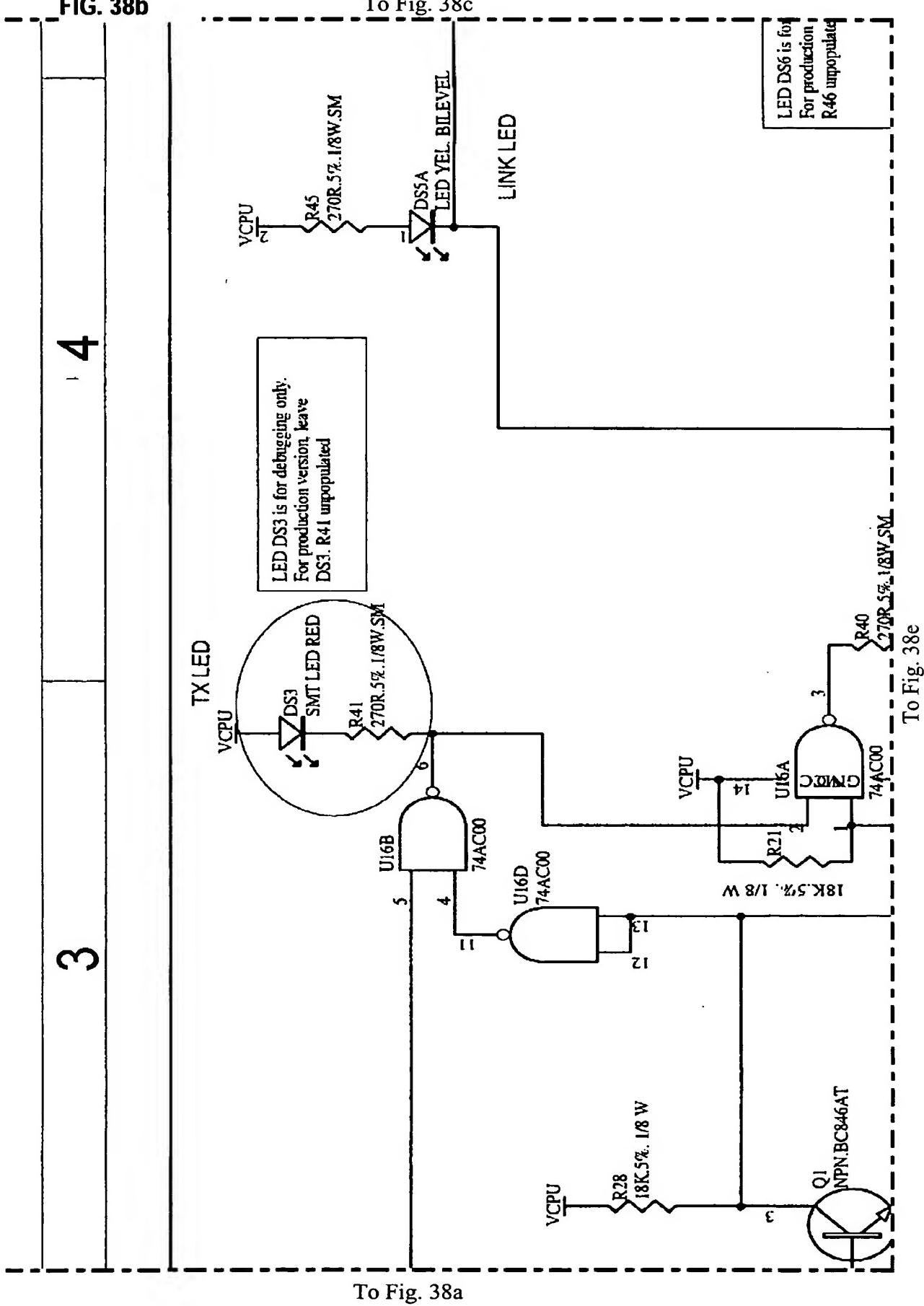


**FIG. 38a**

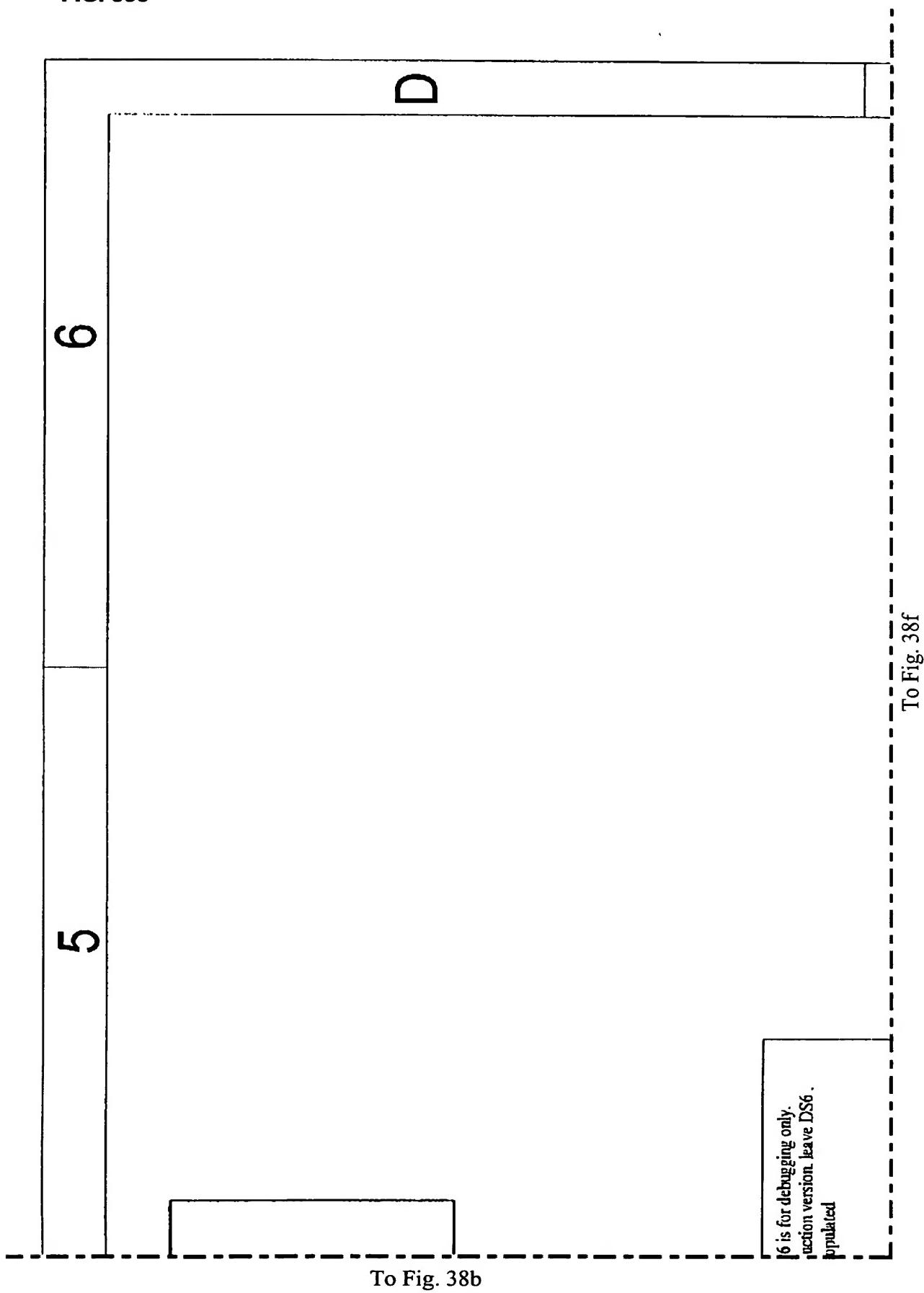
To Fig. 38b



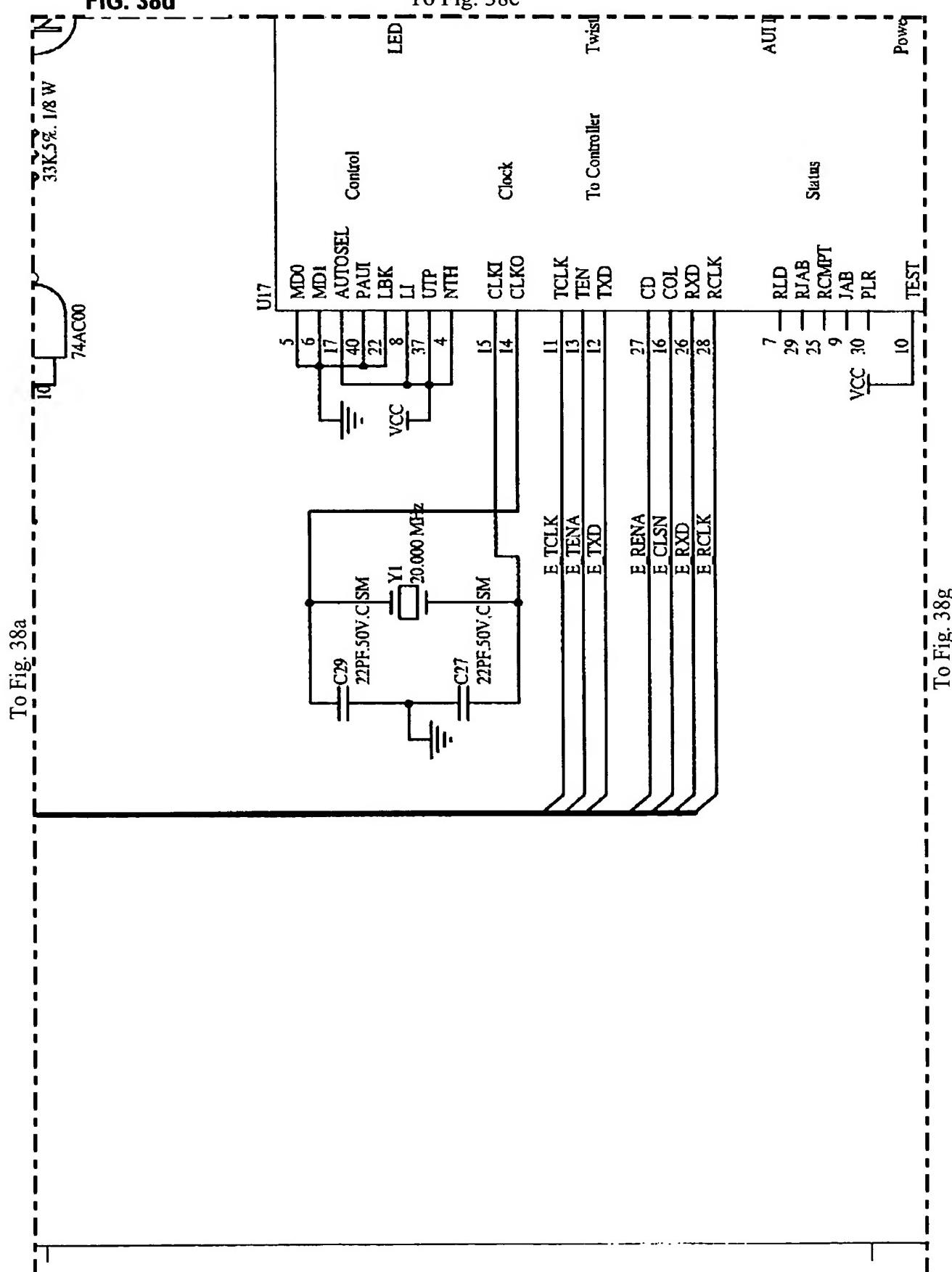
**FIG. 38b**



**FIG. 38c**



**FIG. 38d**



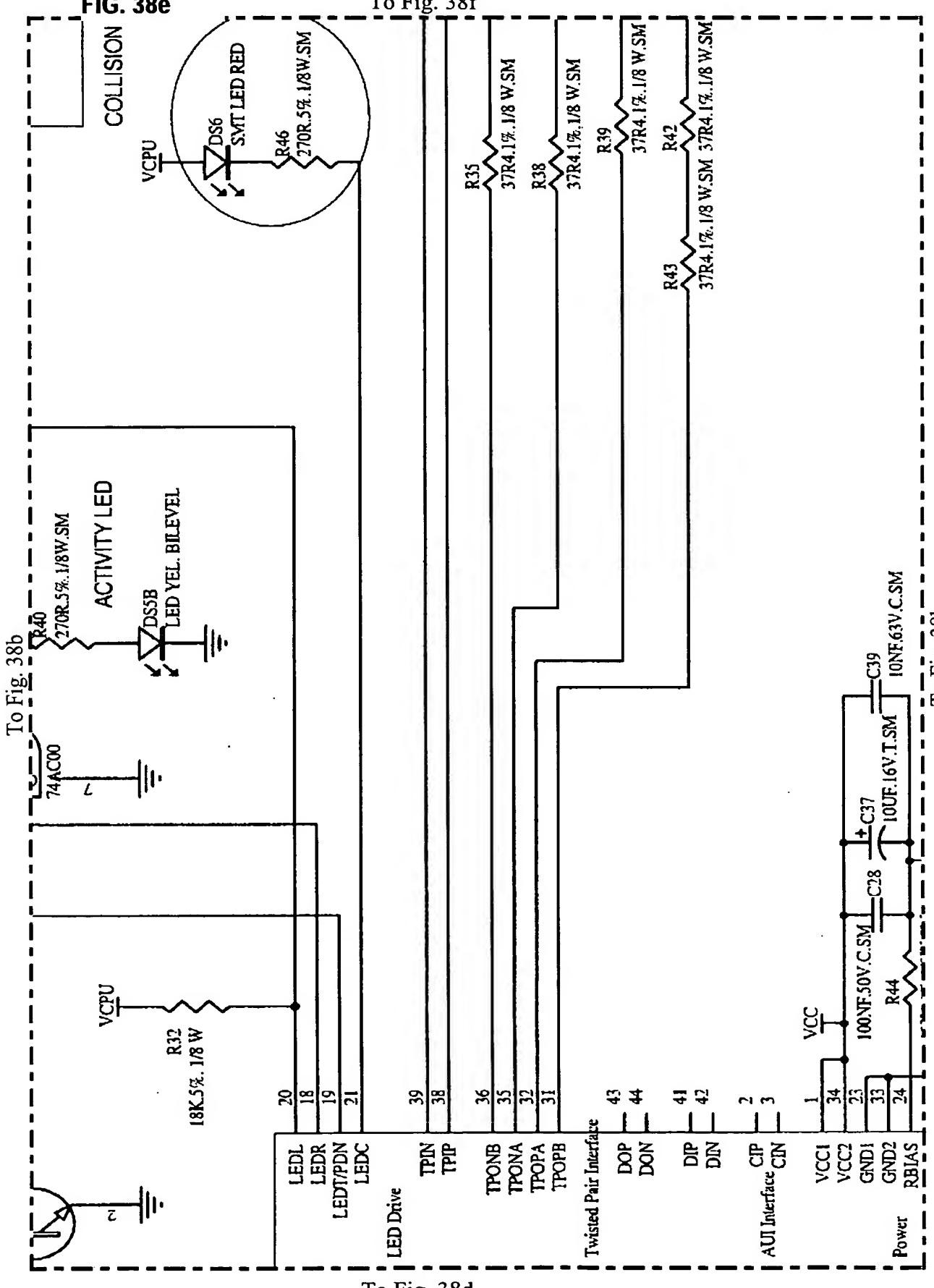
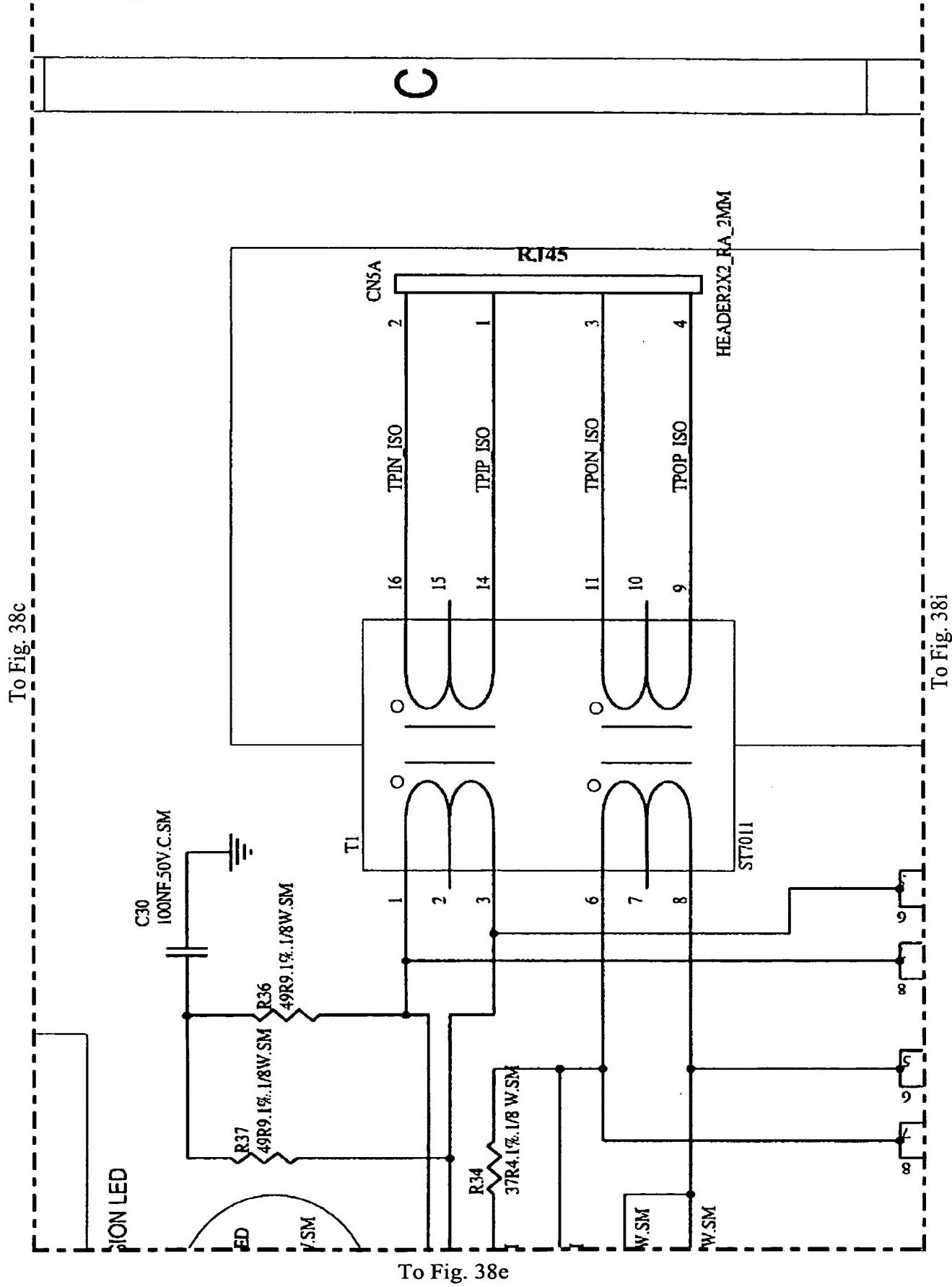
**FIG. 38e****To Fig. 38d****To Fig. 38h**

FIG. 38f



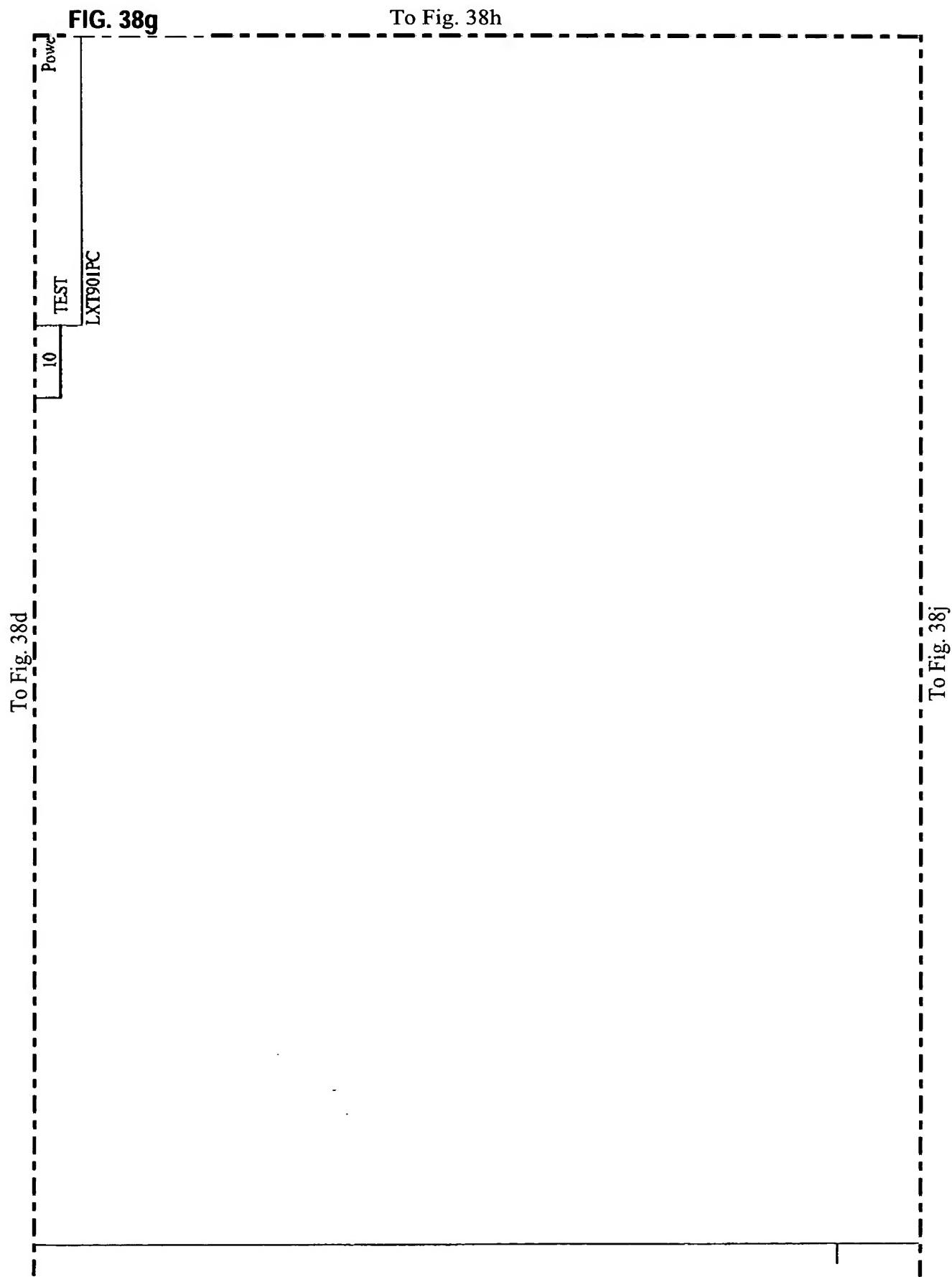
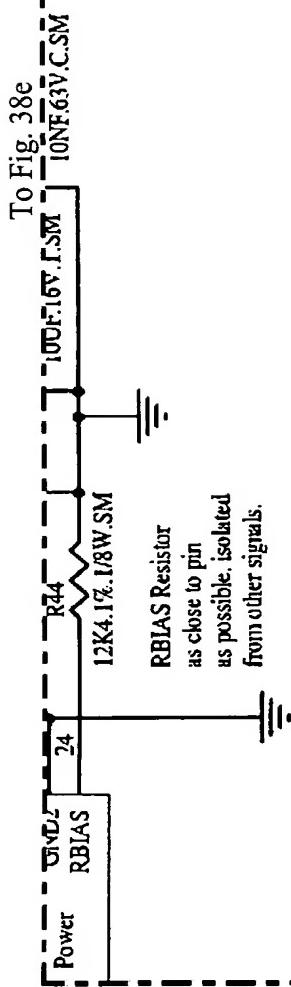
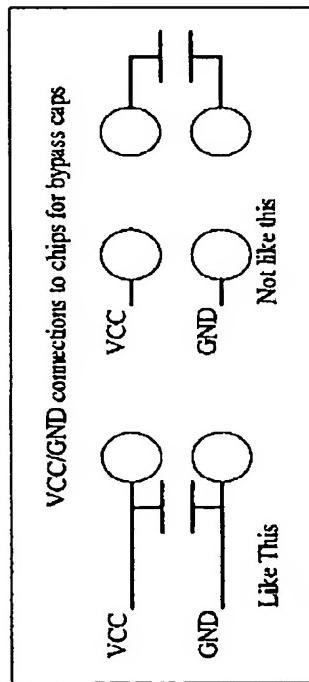


FIG. 38h



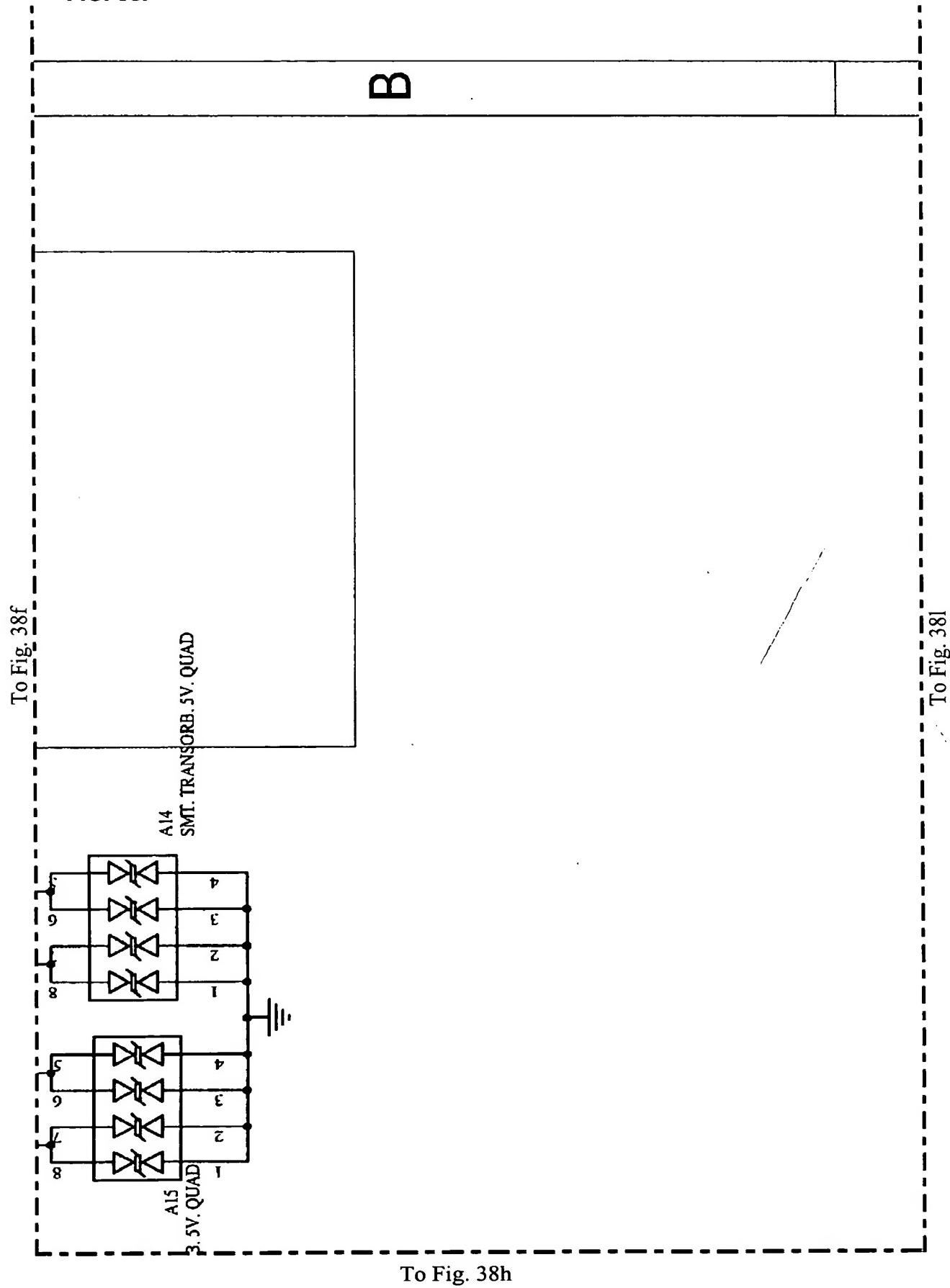
To Fig. 38i

To Fig. 38g



To Fig. 38k

**FIG. 38i**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

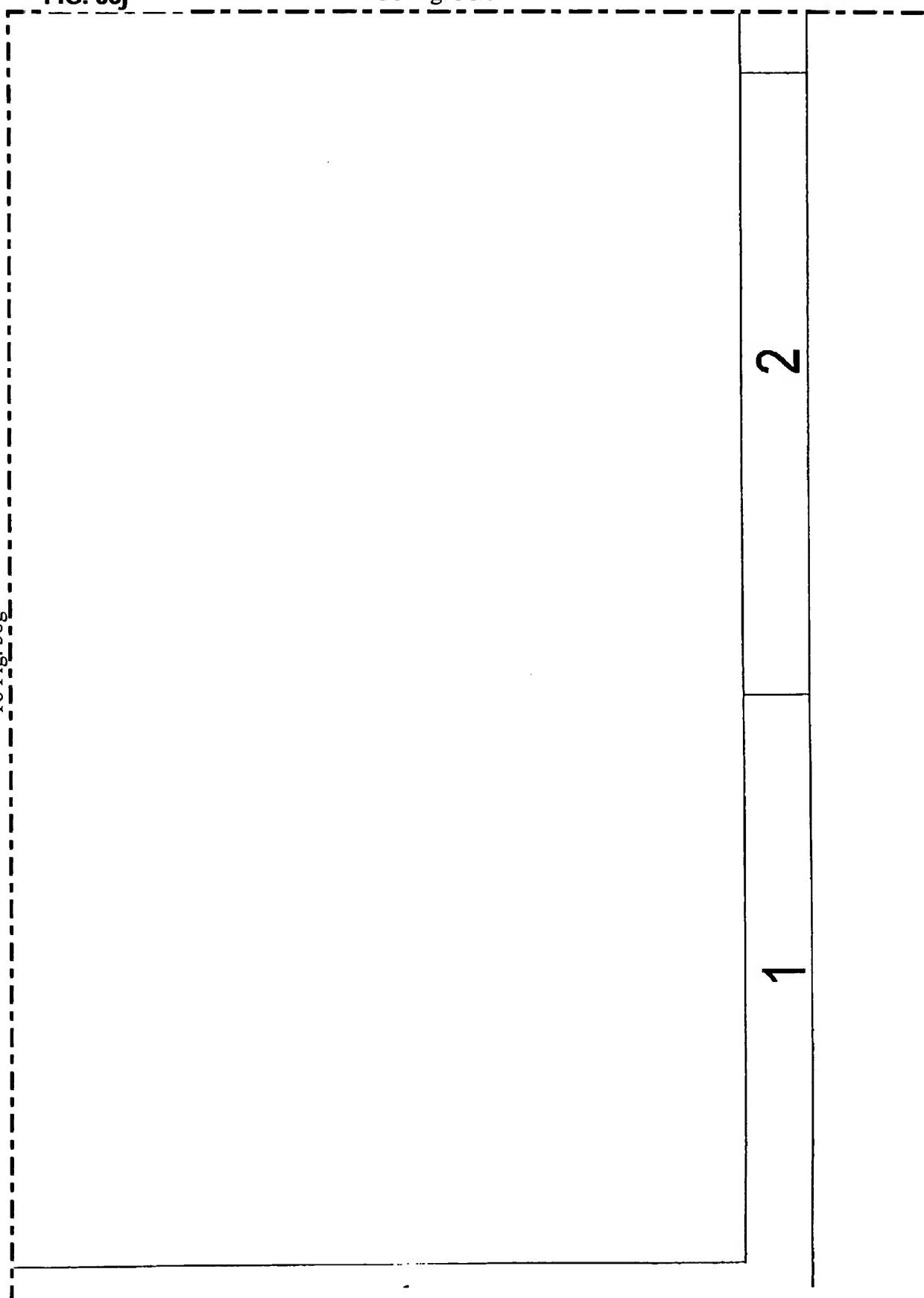
**FIG. 38j**

To Fig. 38k

To Fig. 38g

**2**

**1**



**FIG. 38k**

To Fig. 38l

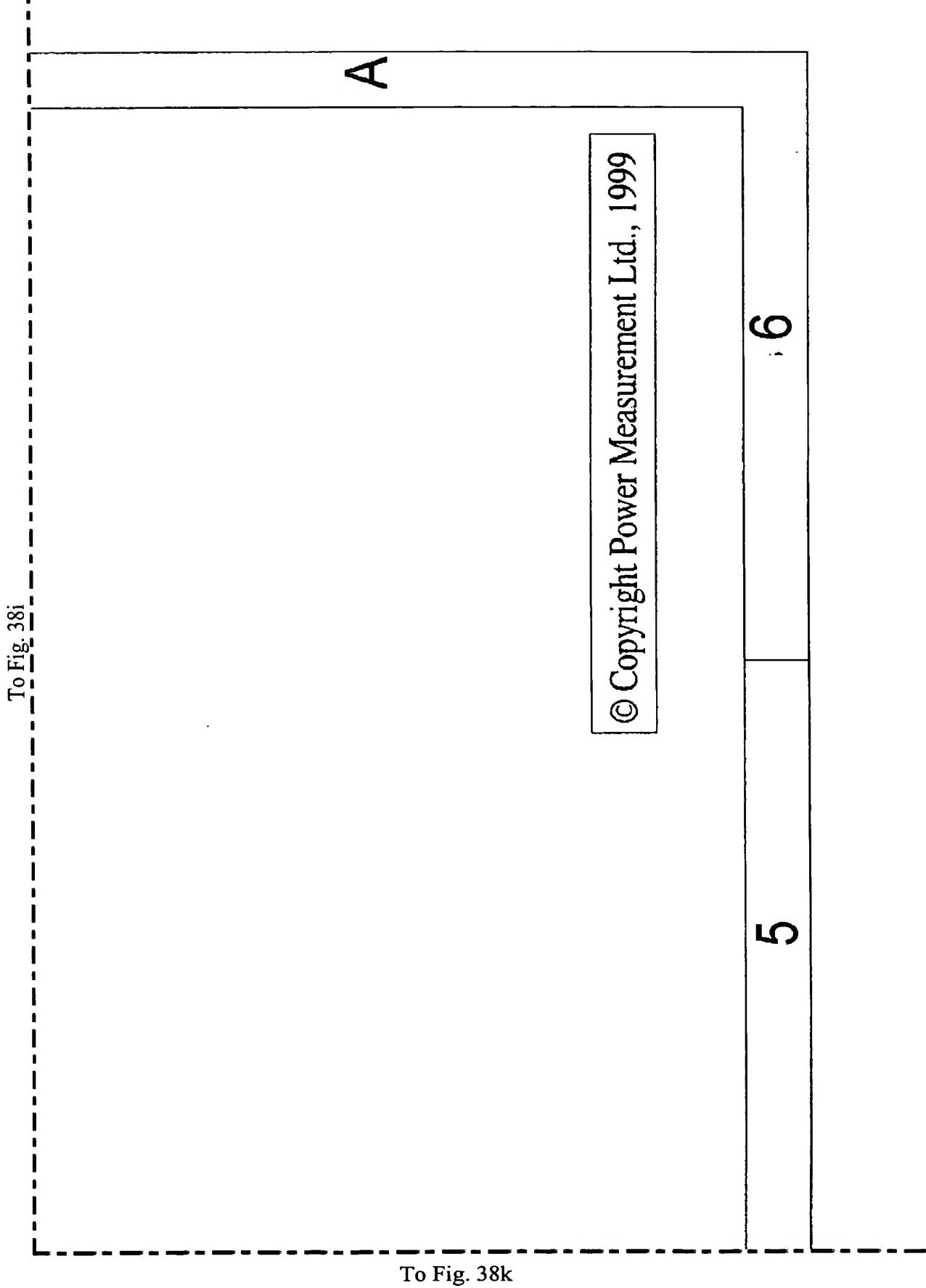
To Fig. 38h

**4**

**3**

To Fig. 38j

**FIG. 38I**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

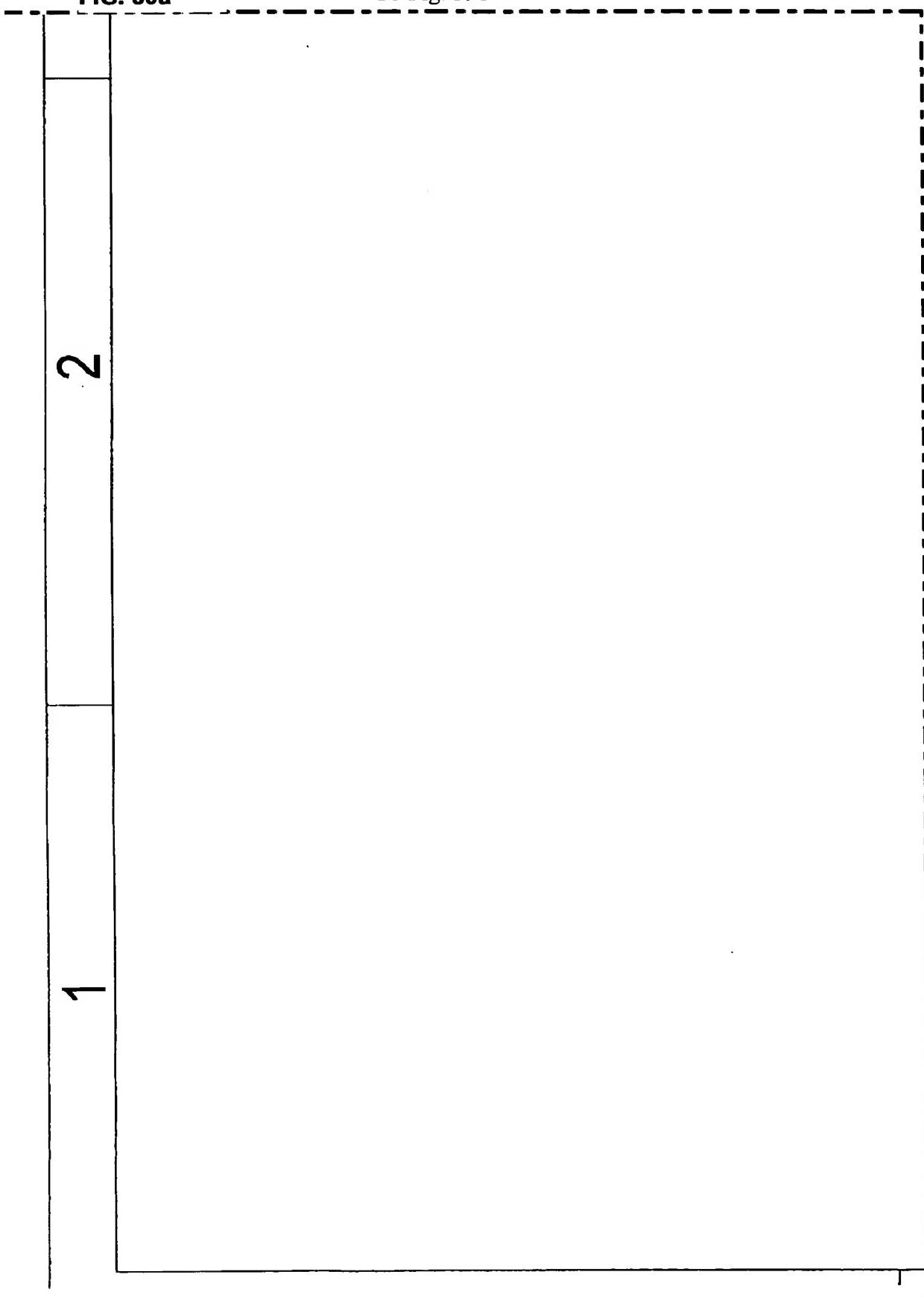
**FIG. 39a**

To Fig. 39b

2

1

To Fig. 39d



**FIG. 39b**

To Fig. 39c

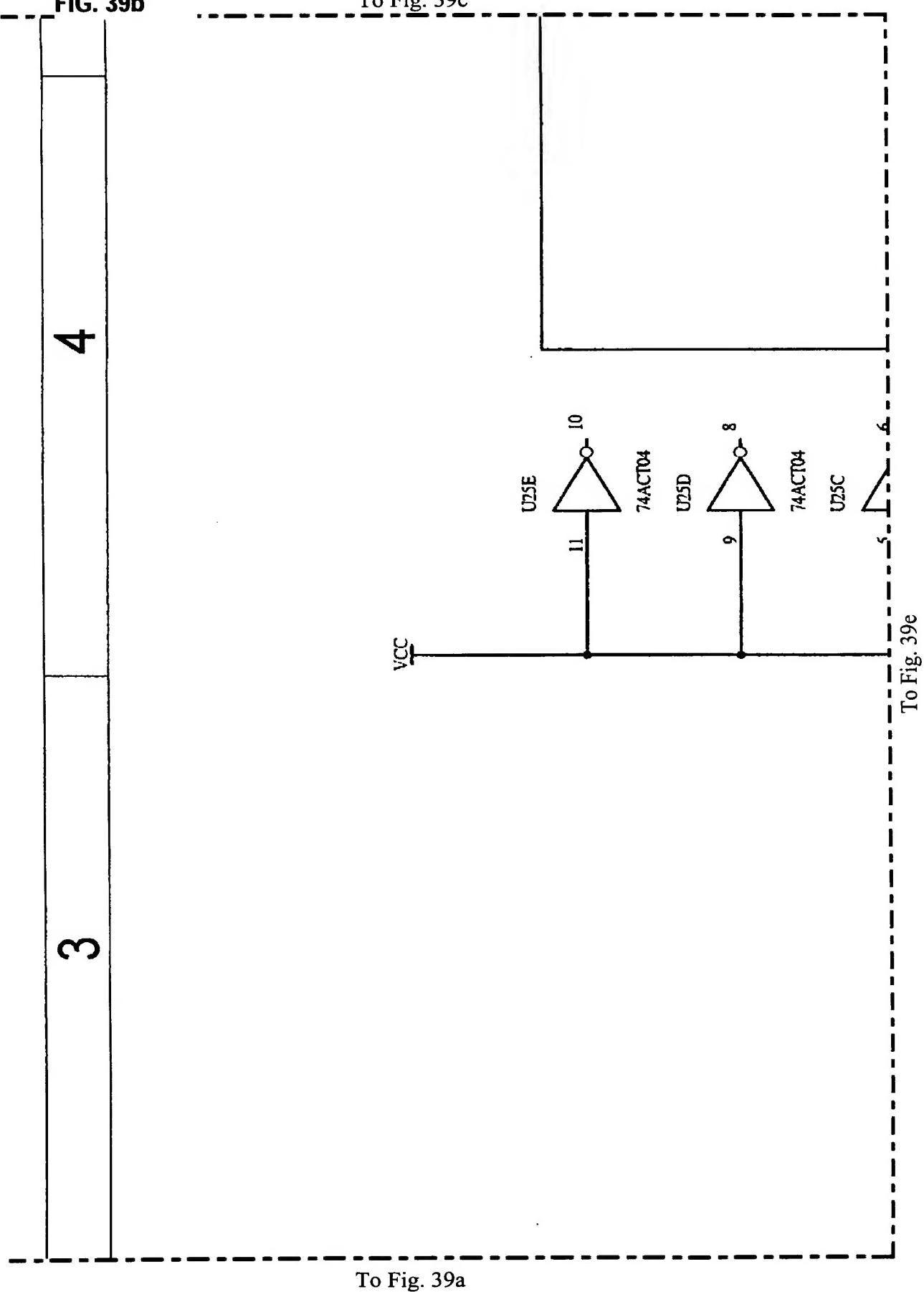
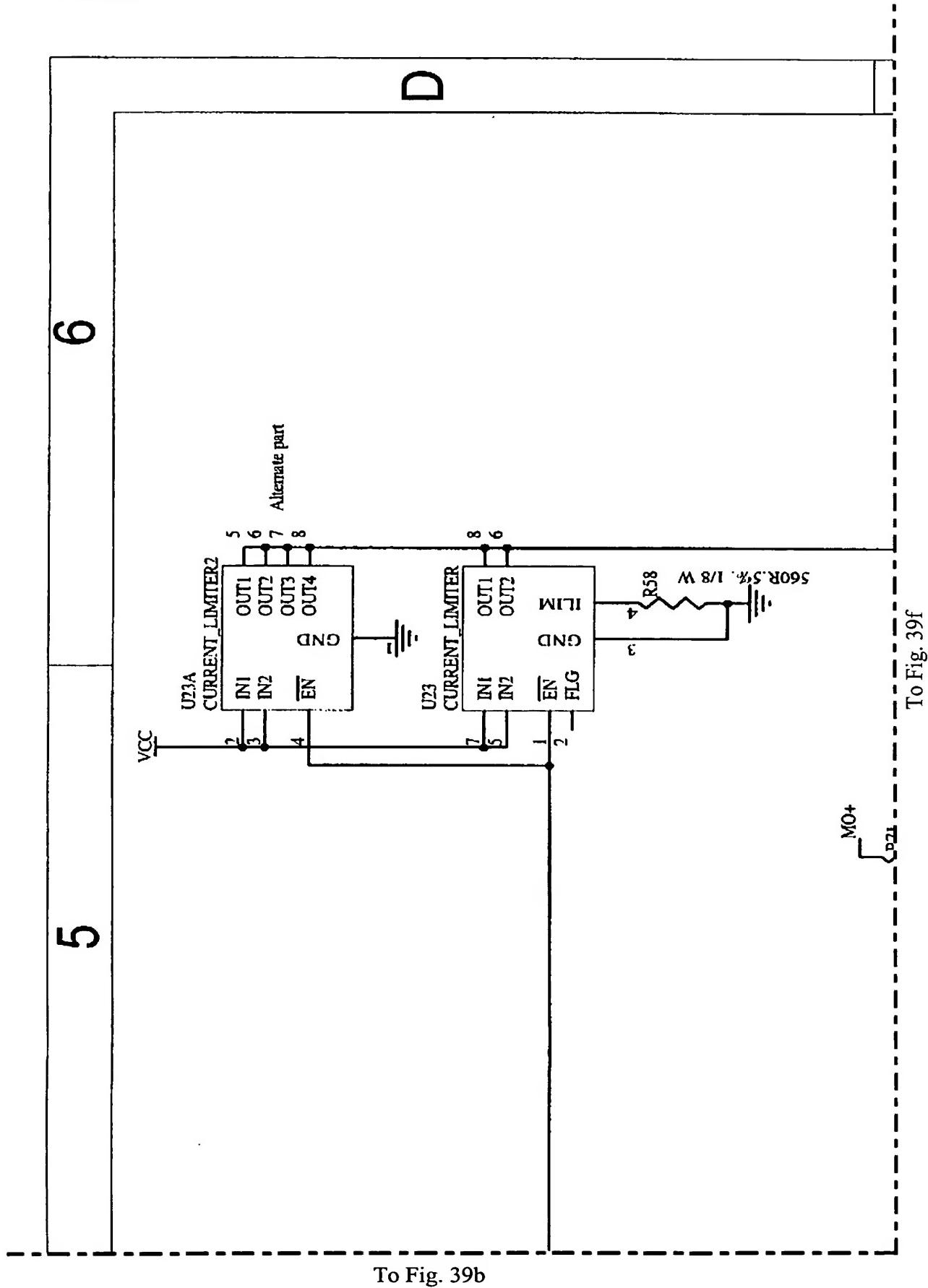


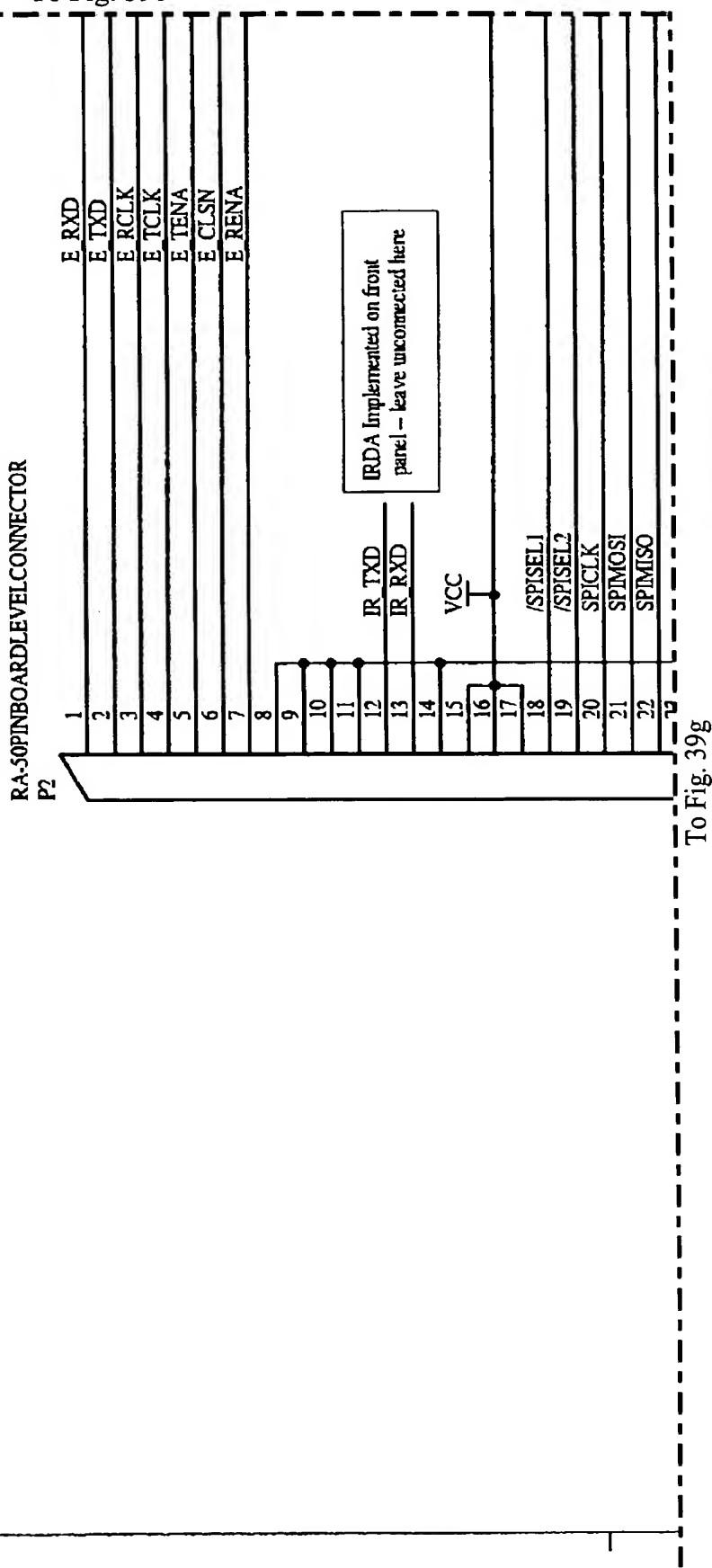
FIG. 39c



**FIG. 39d**

To Fig. 39e

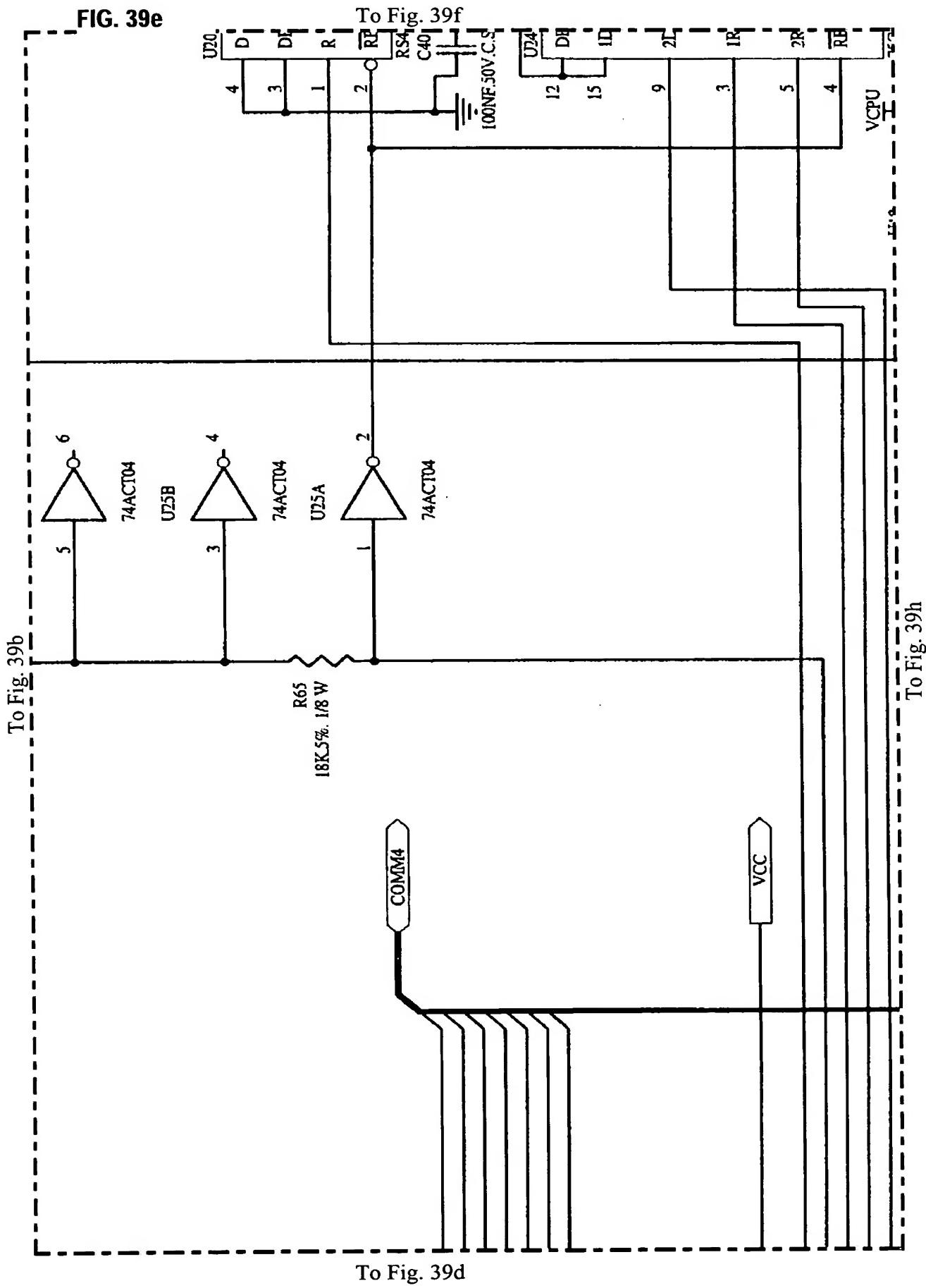
COMMUNICATIONS CARD CONNECTOR



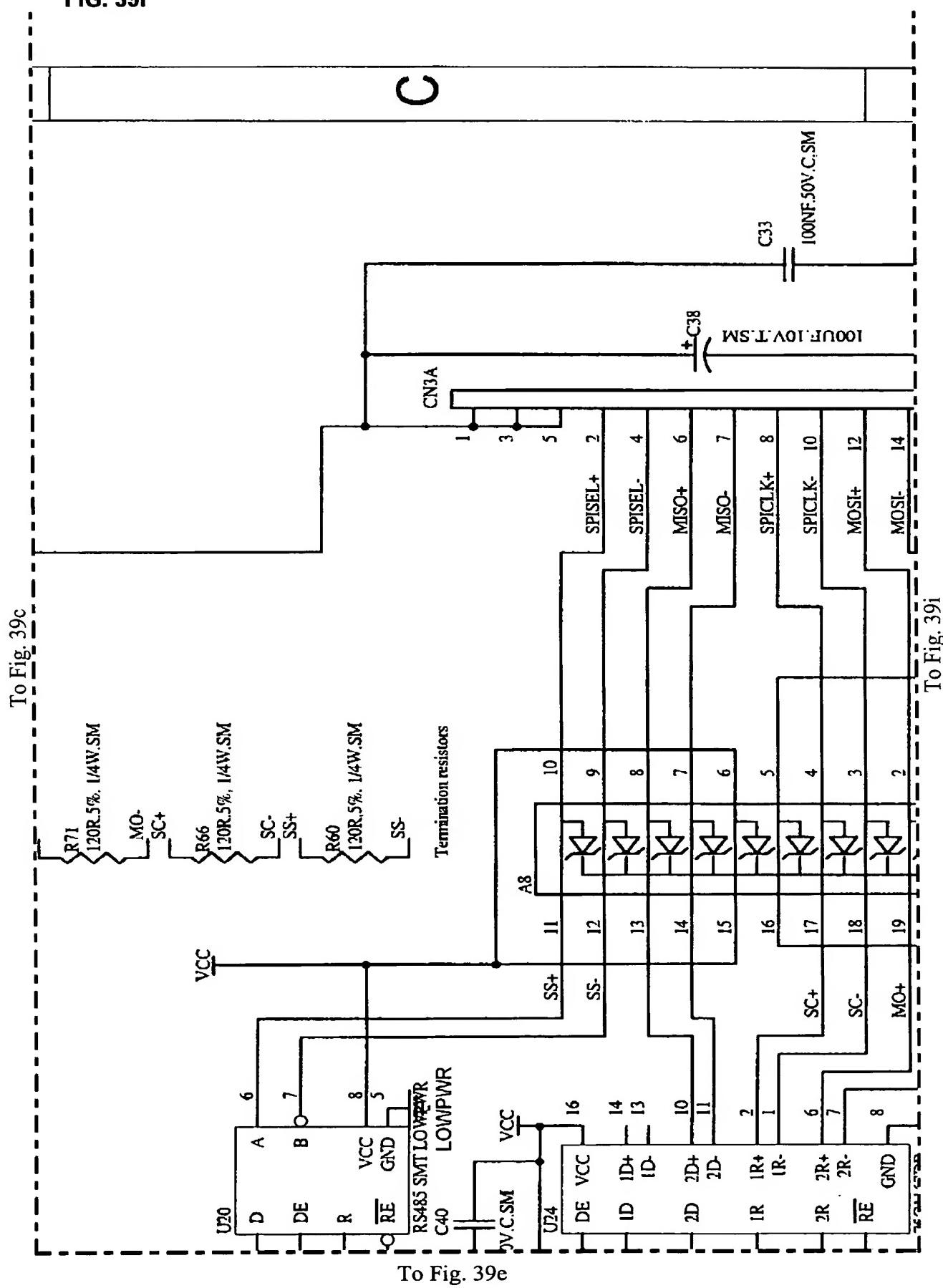
Inventor(s): David W. Giles et al

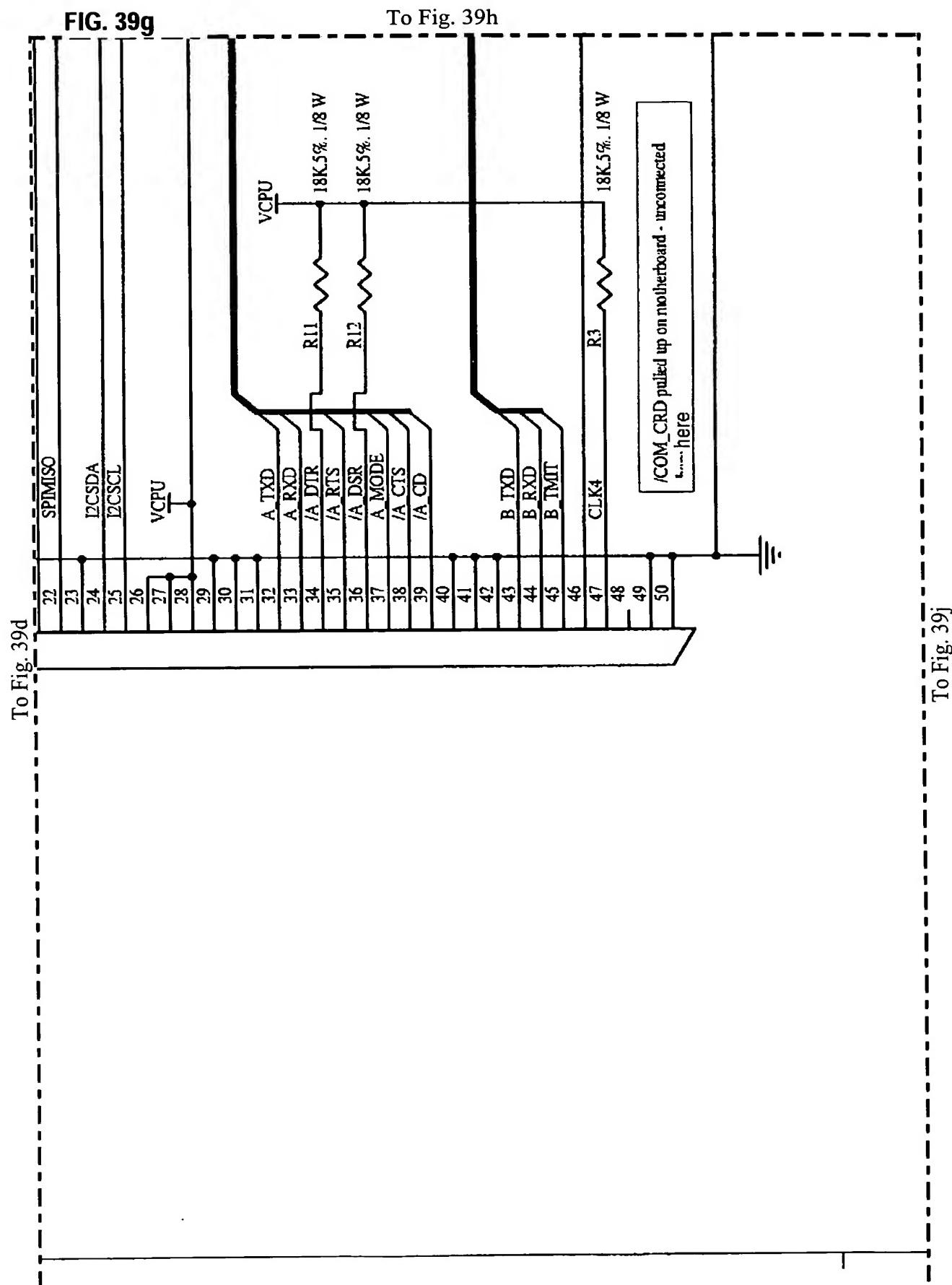
Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 39e**

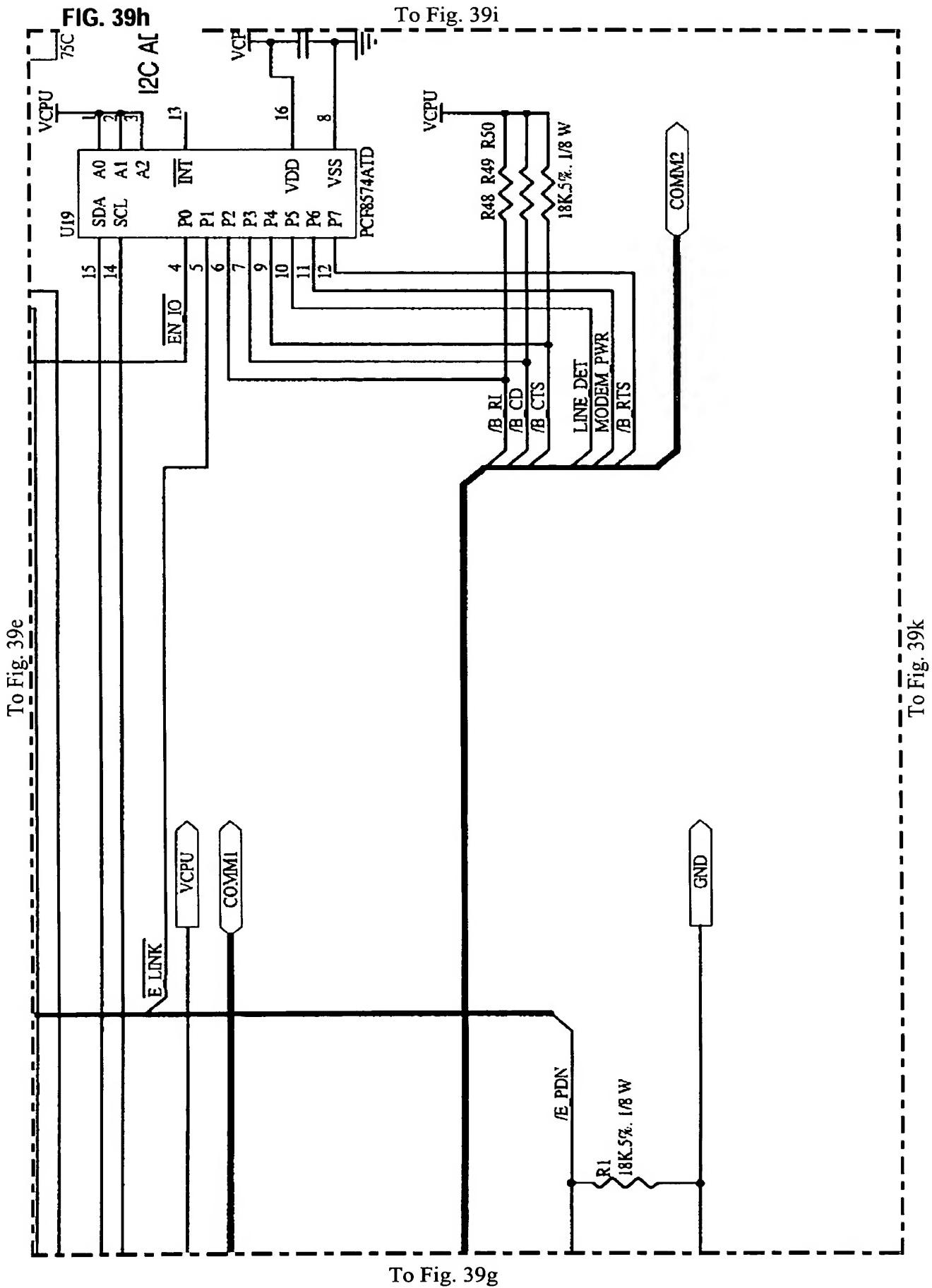


**FIG. 39f**

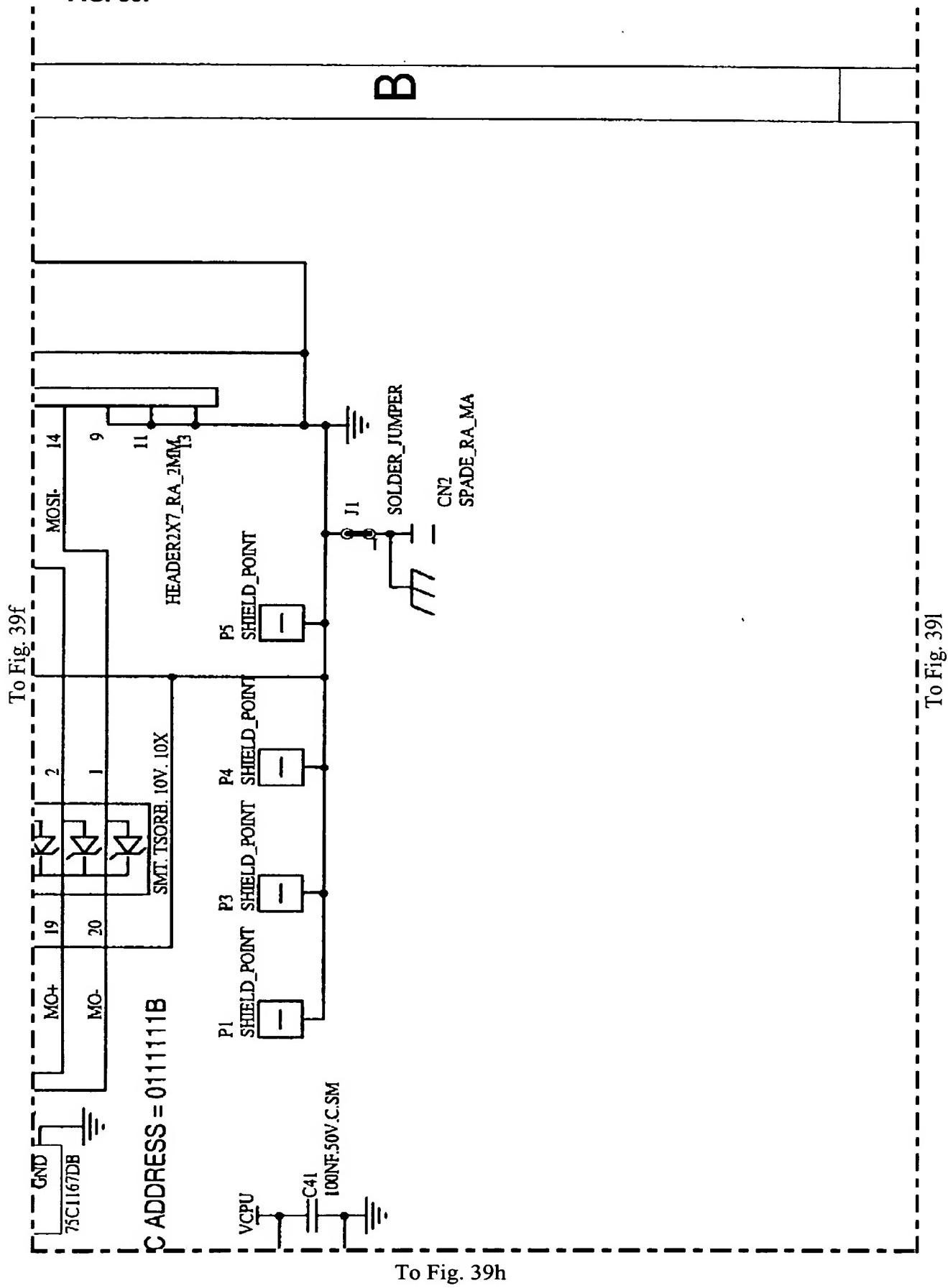




**FIG. 39h**



**FIG. 39i**



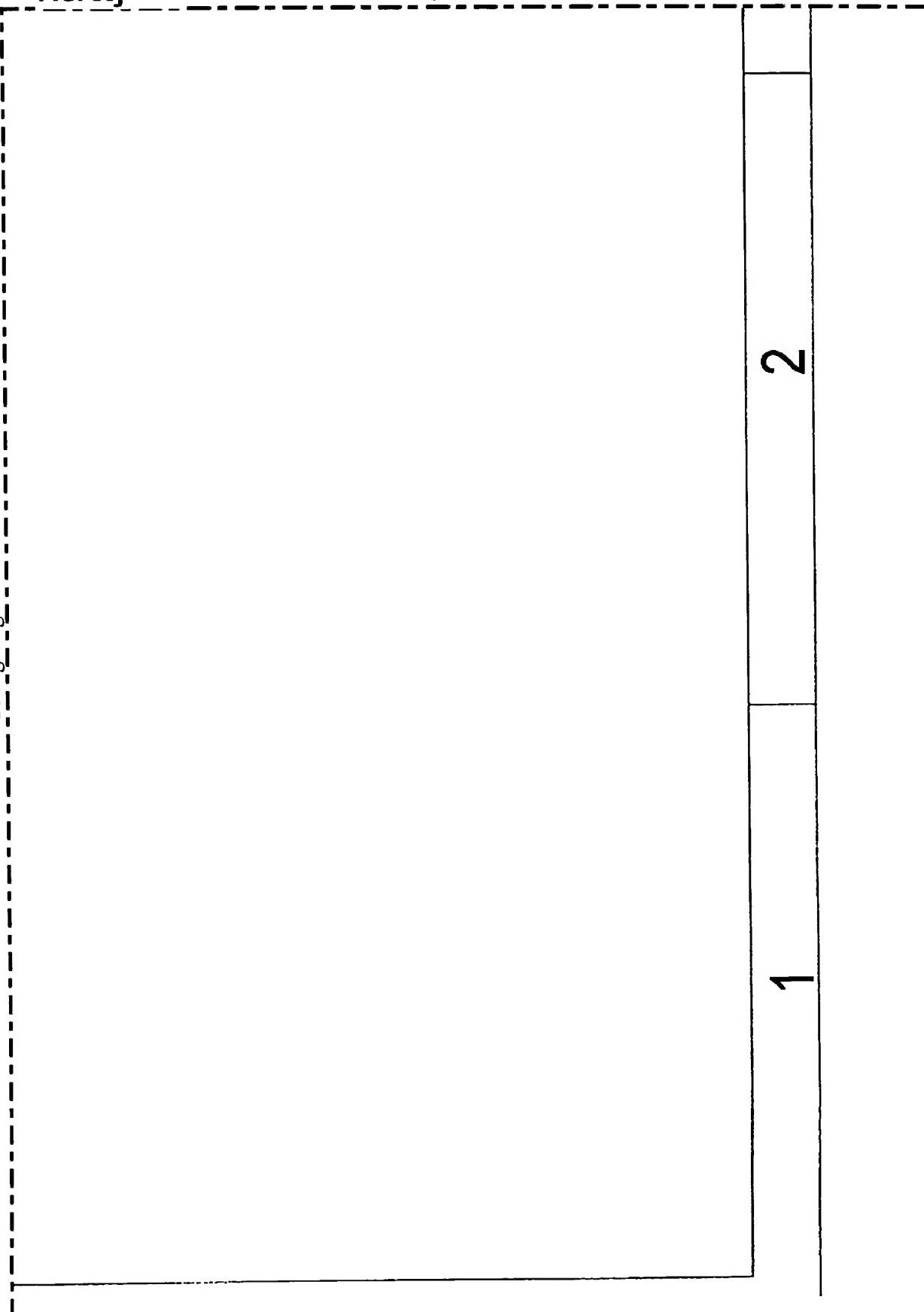
**FIG. 39j**

To Fig. 39k

To Fig. 39g

**2**

**1**



**FIG. 39k**

To Fig. 39l

To Fig. 39h

**4**

**3**

To Fig. 39j

**FIG. 39I**

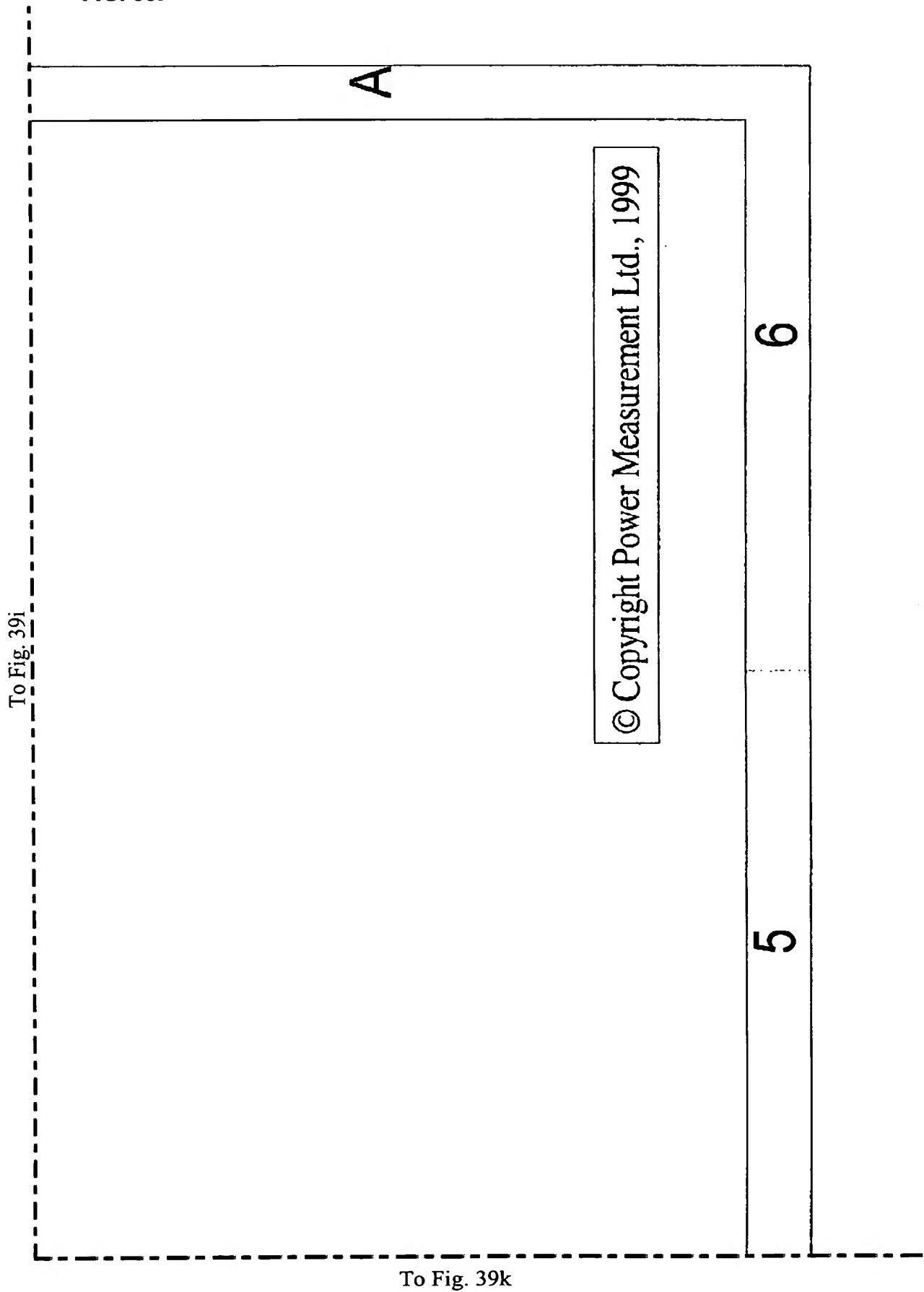
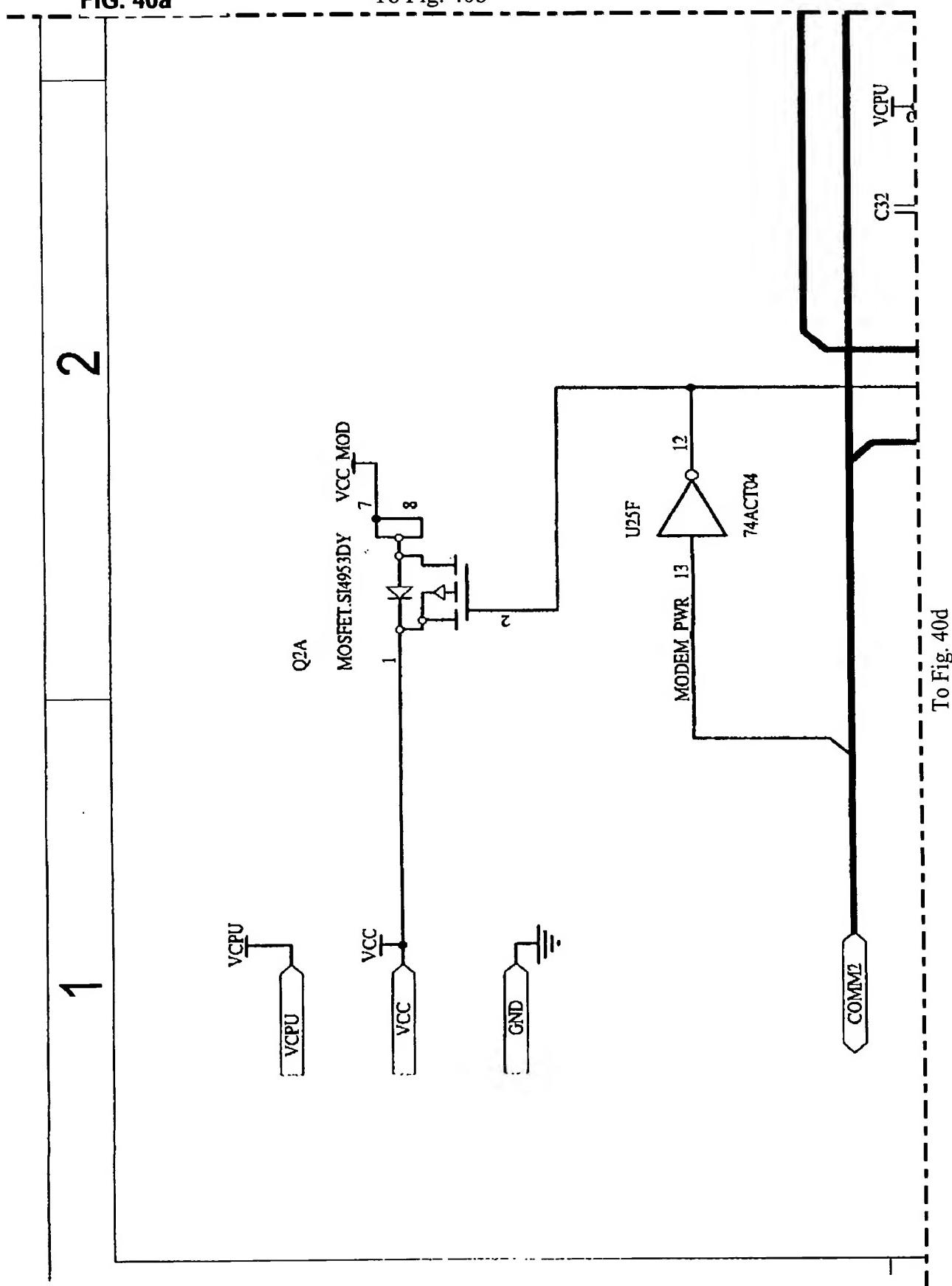


FIG. 40a

To Fig. 40b



To Fig. 40d

**FIG. 40b**

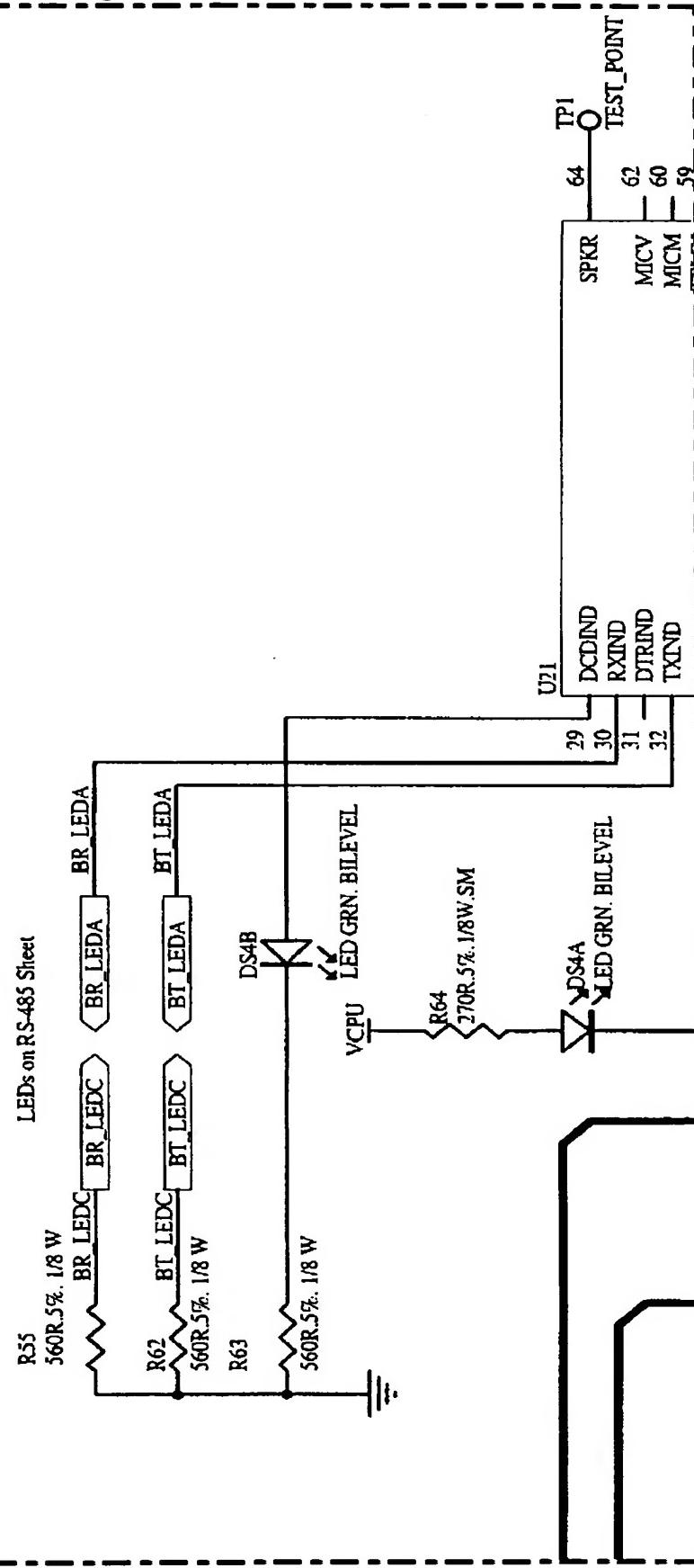
4

3

To Fig. 40c

To Fig. 40a

To Fig. 40e

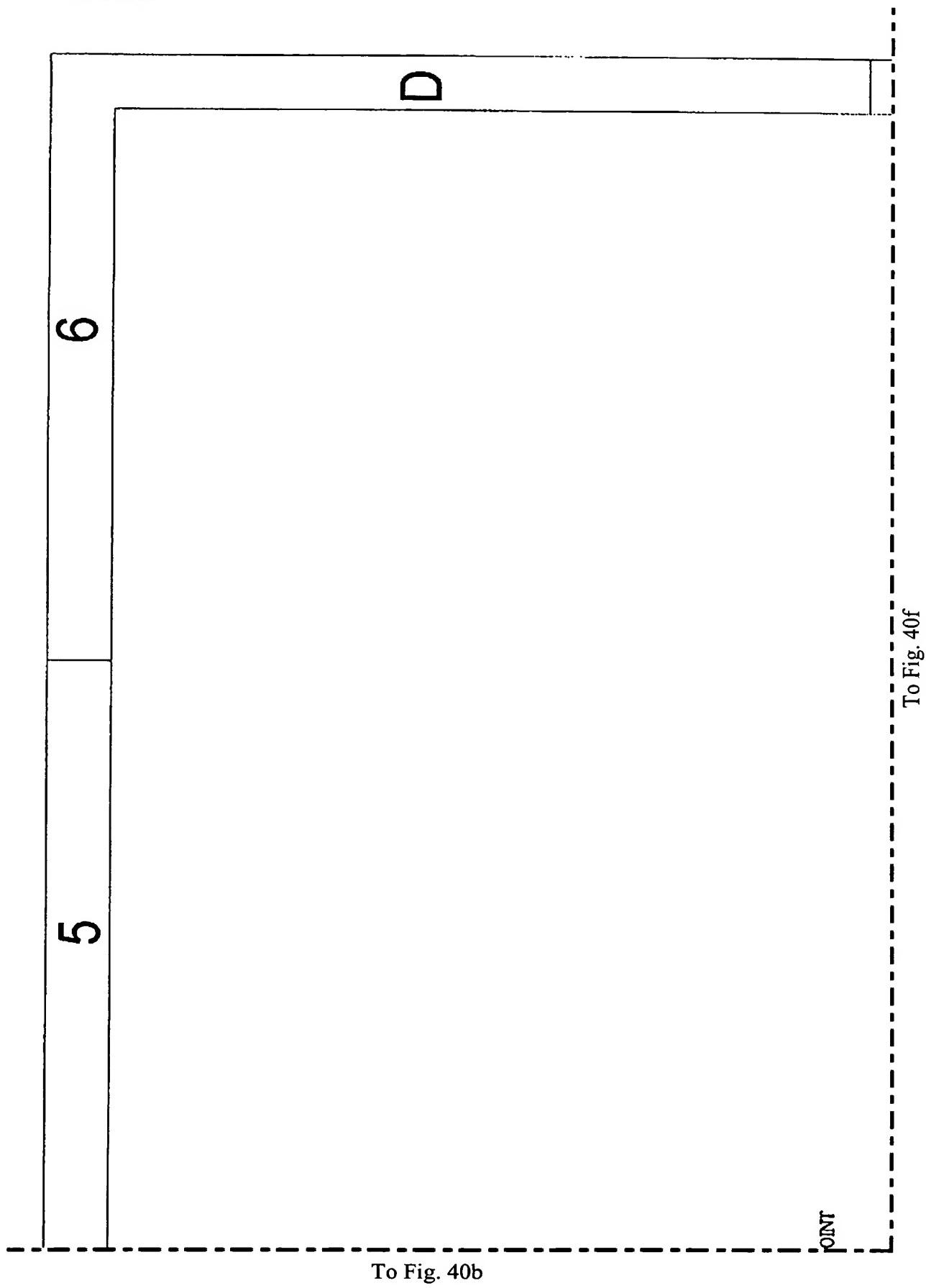


Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

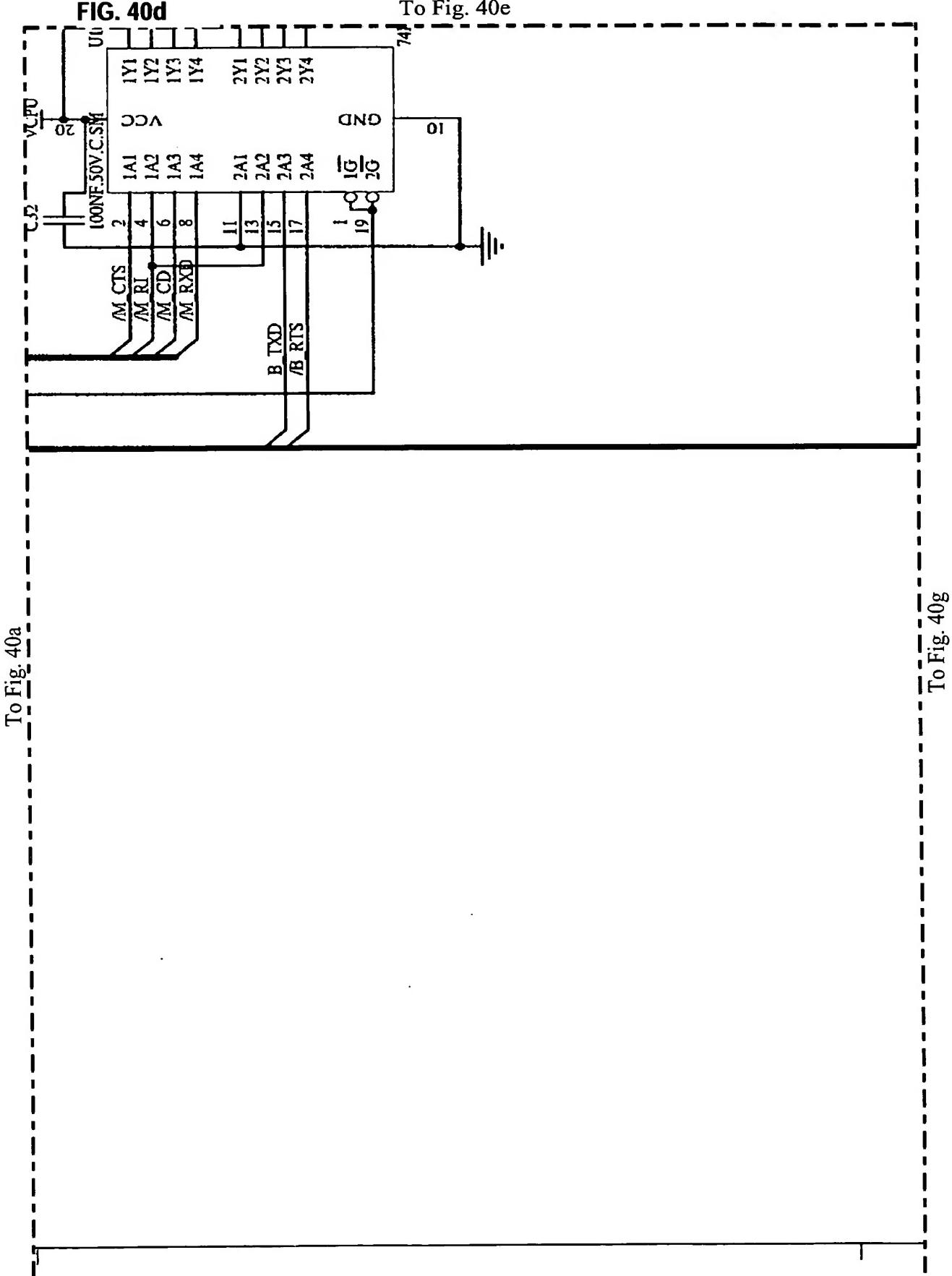
**FIG. 40c**



Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

FIG. 40d



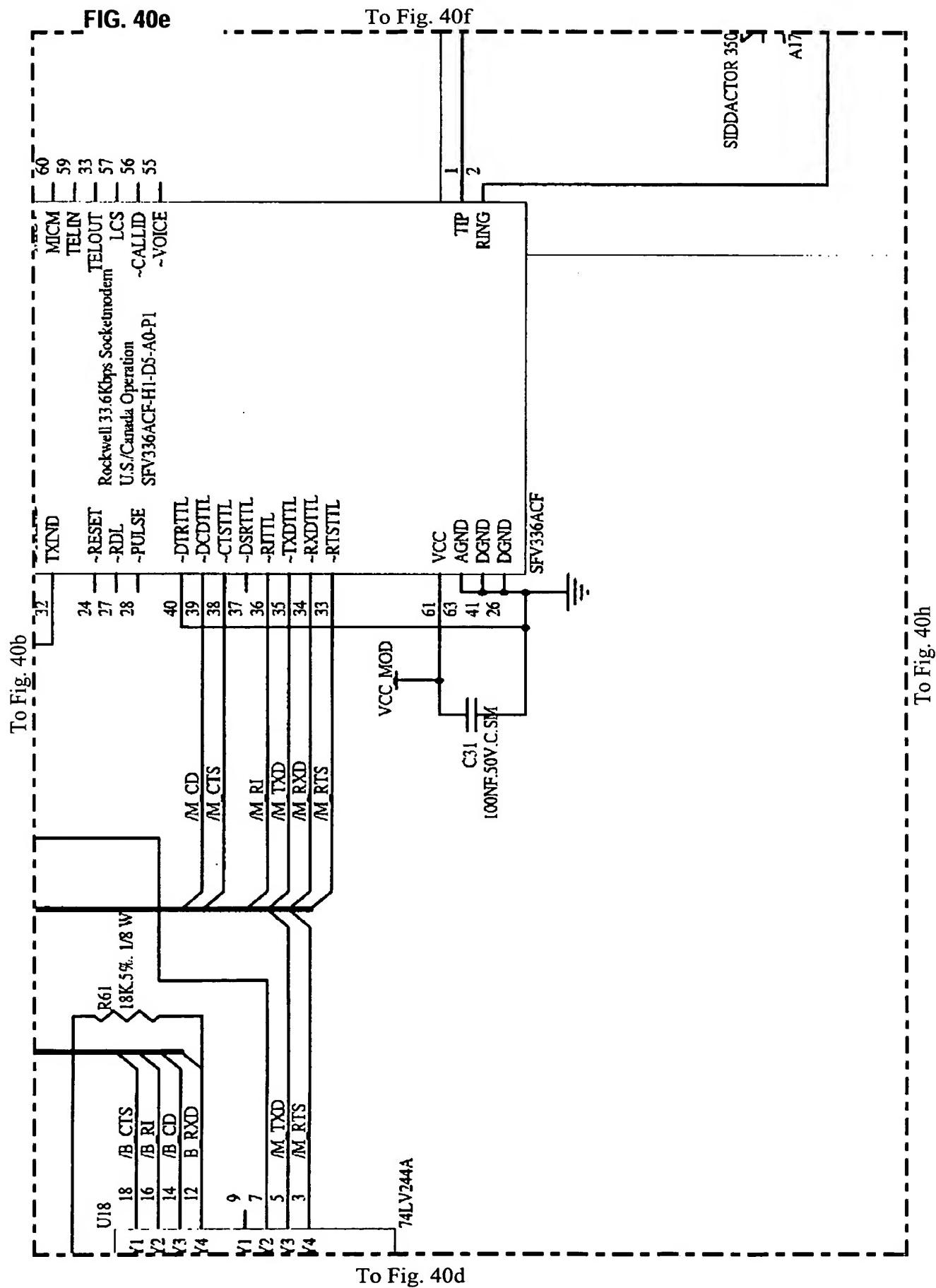
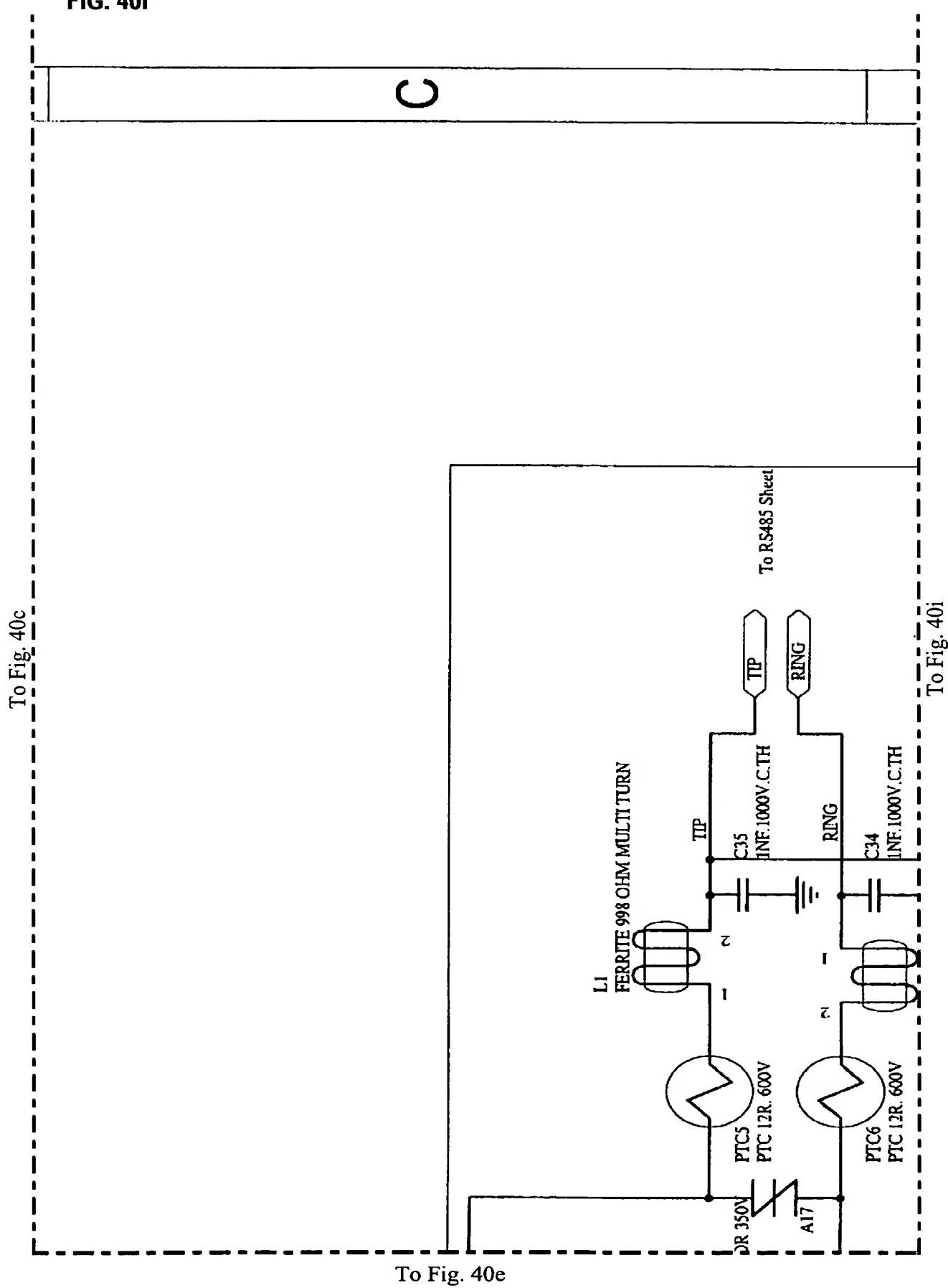
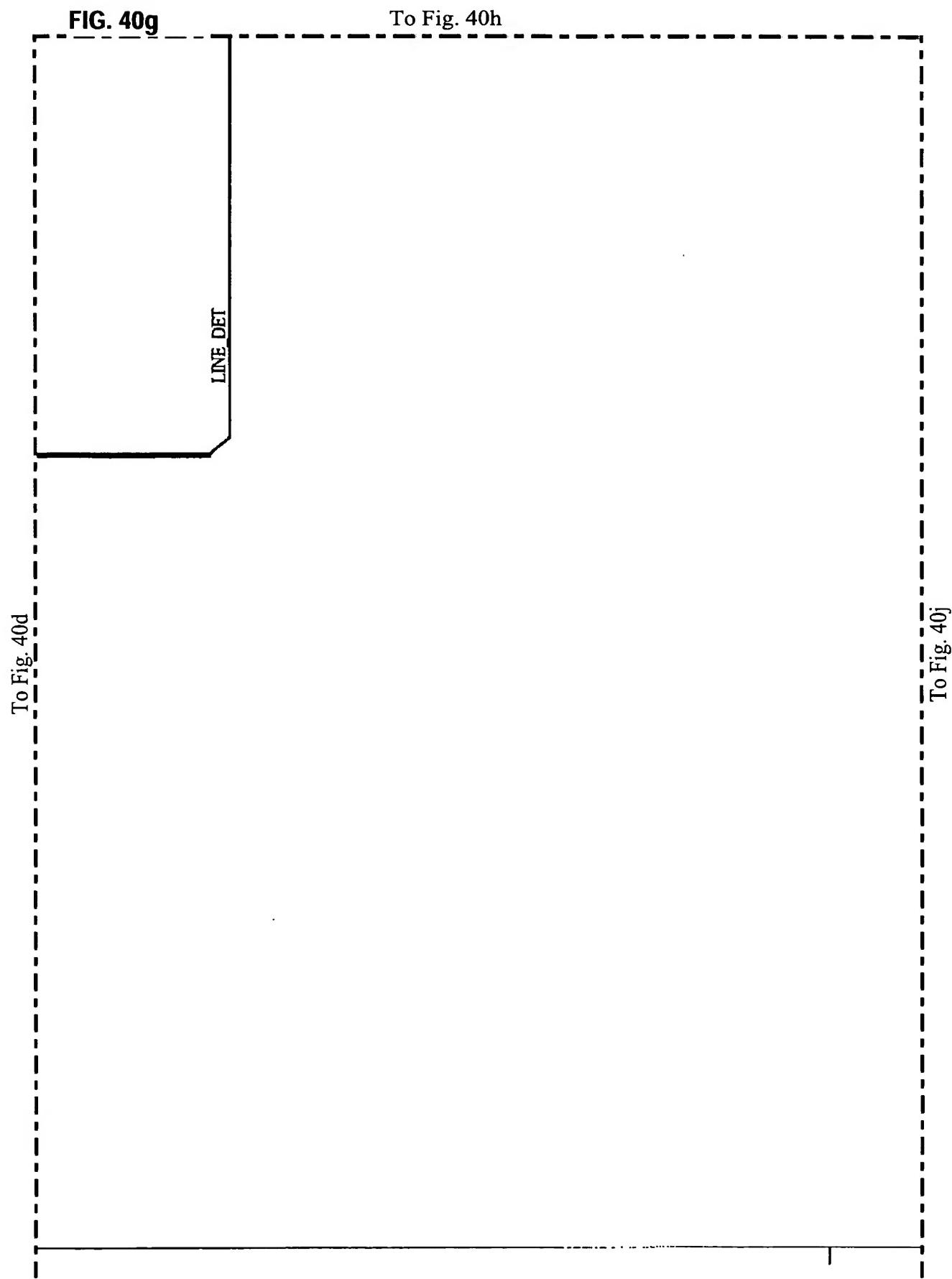


FIG. 40f



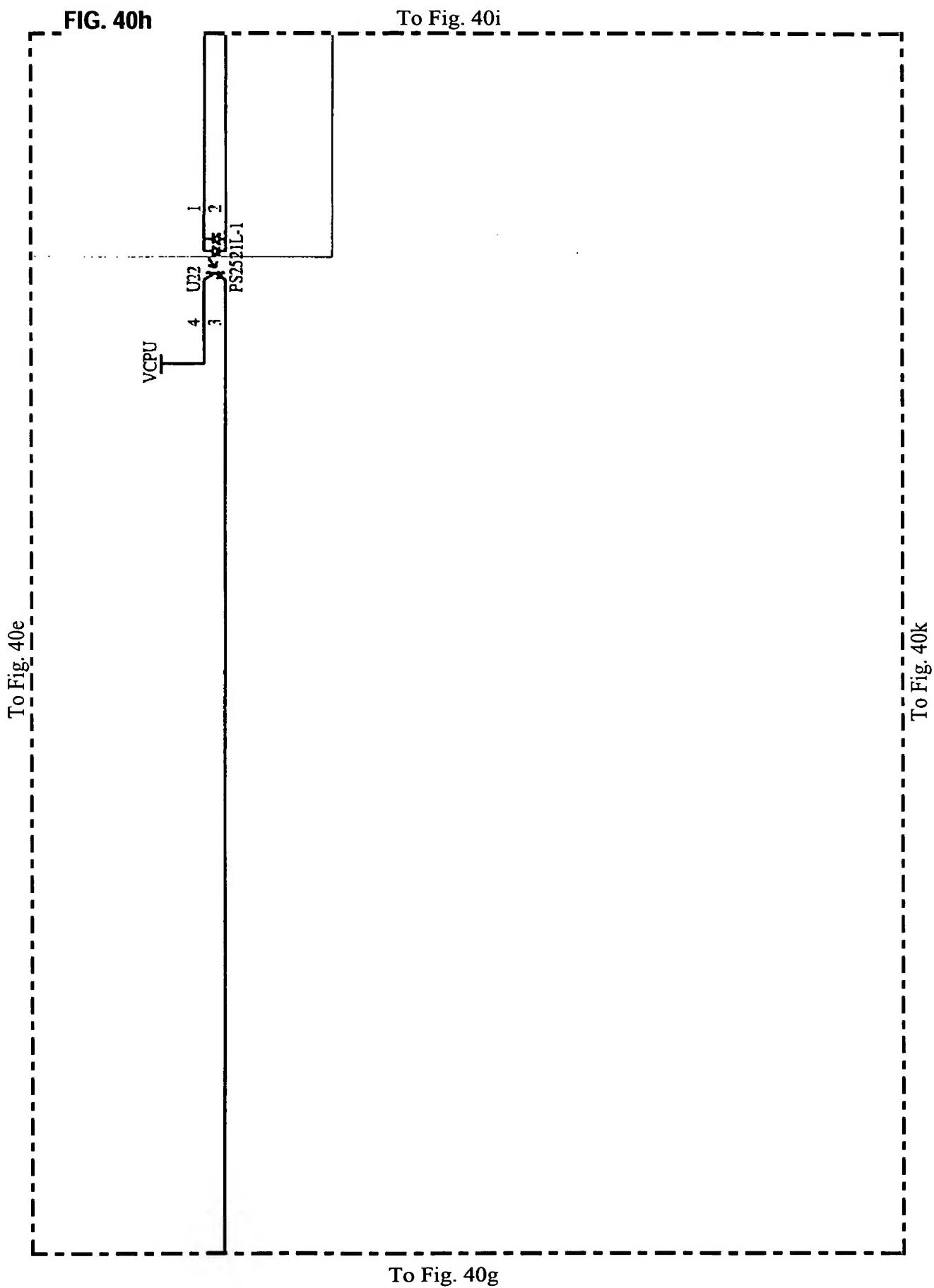


Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

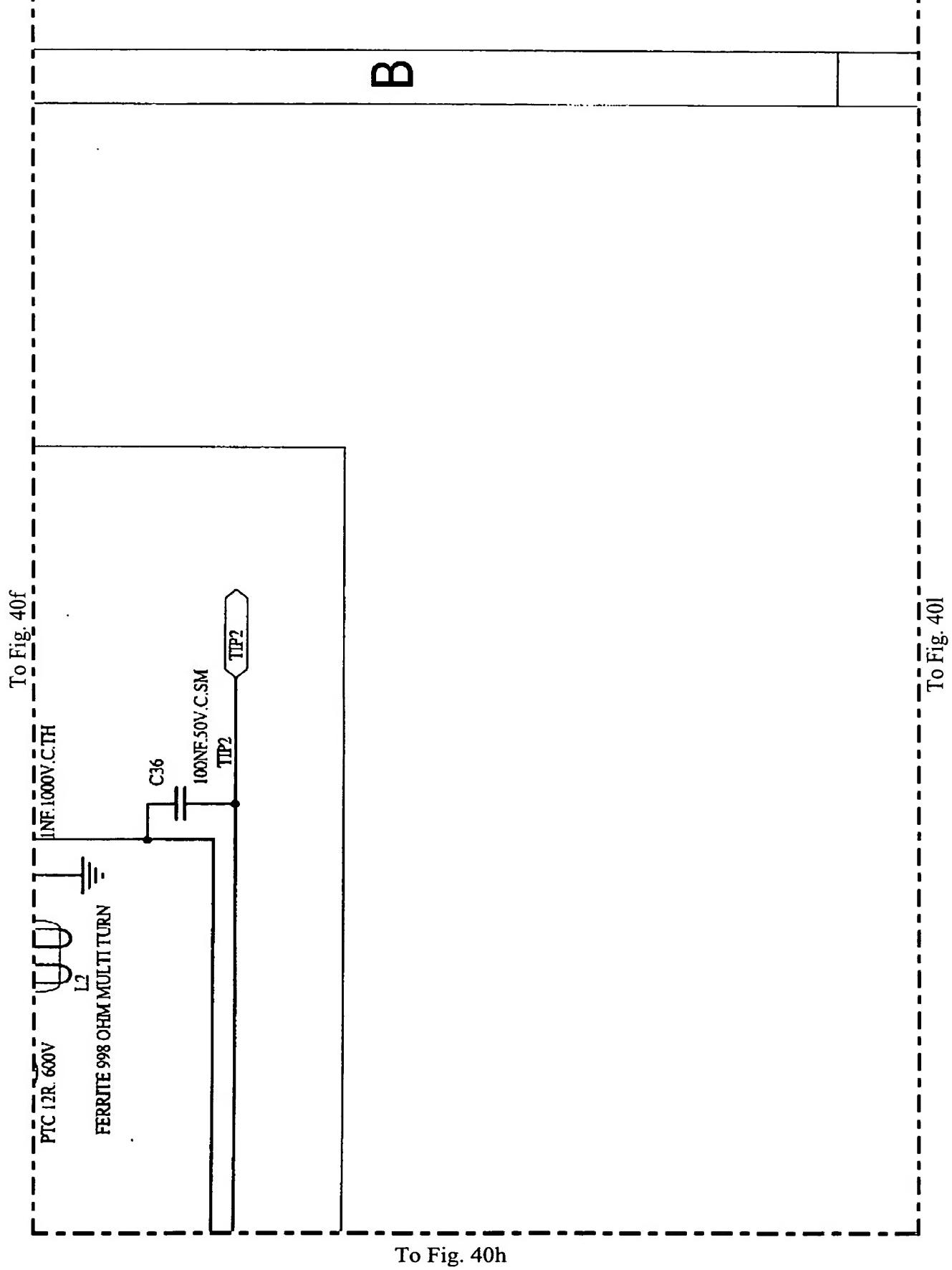
Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

**FIG. 40h**



**FIG. 40i**



Patent Application For: INTERACTIVE USER INTERFACE FOR A REVENUE METER

Inventor(s): David W. Giles et al

Attorney Docket No.: OUR CASE NO. 6270/125

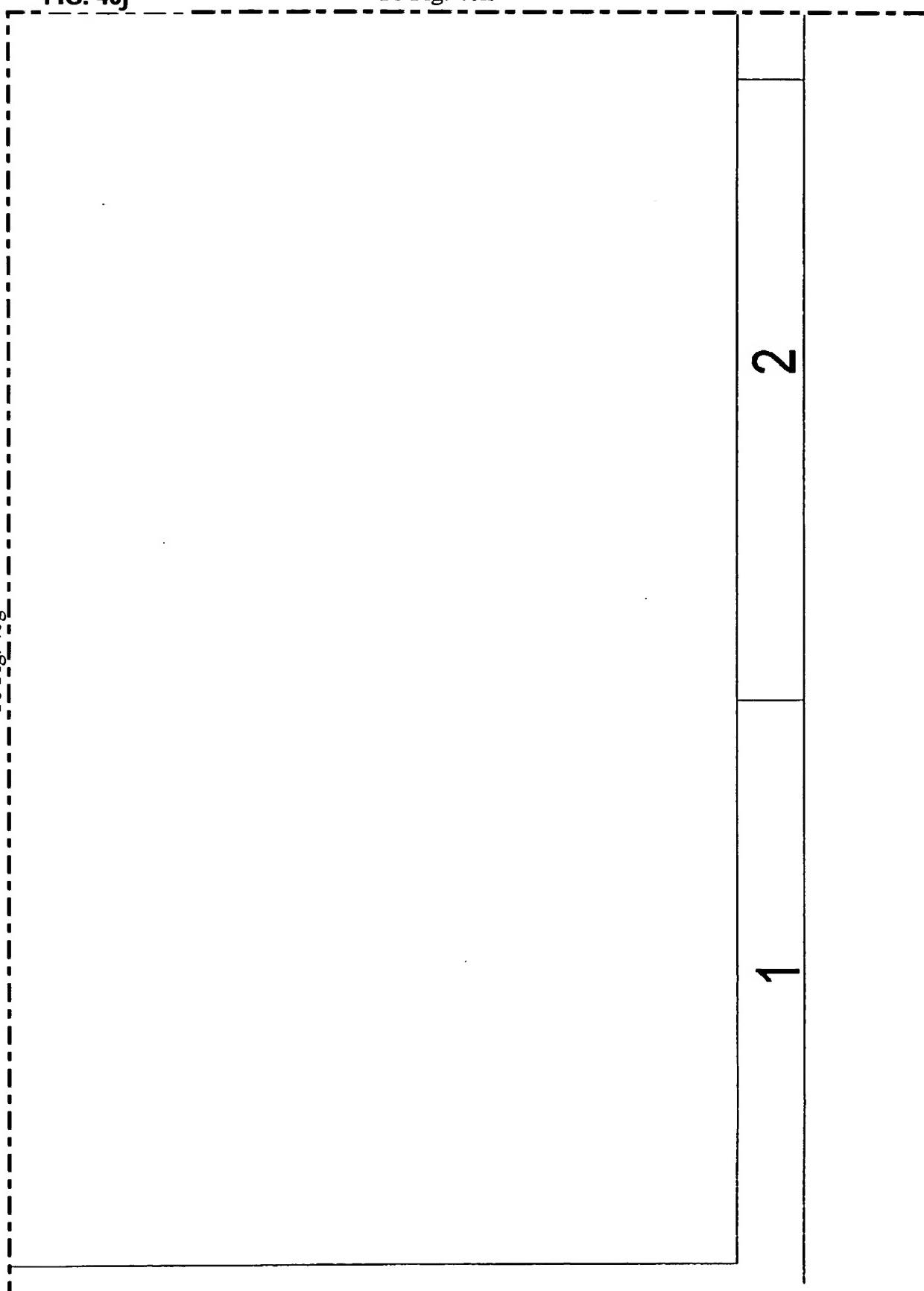
**FIG. 40j**

To Fig. 40k

To Fig. 40g

2

1



**FIG. 40k**

To Fig. 40l

To Fig. 40h

4

3

To Fig. 40j

**FIG. 40l**

